Resume

Name	: **Dr. Purushotam Naidu Karri**
Present Position & Address	: Assistant Professor, Department of Computer Science and Engineering GVP College of Engineering For Women, Kommadi, Visakhapatnam- 530048 AP, India.
Contact	: **+91-9963444007** E-mail : kpnaidu@gvpcew.ac.in
Residential Address	: Datta vignesha Residency, GF-1, Sai Ram Colony Kommadi,VSP-48.
Permanent Address	: Krishnarayapuram(post),Seethanagaram Mandal, Vizianagaram, Pin-535546, AP, India.
Nationality-Religion	: INDIAN-HINDU
Motto	: Teach to contribute to build a better Society and Nation.

Academic Qualification

S. No.	Qualification	Institute/University	Year	%	Division
1.	Ph.D (CSE)	JNTUK, Kakinada	2023	--	--
2	M.Tech (CST)	Andhra University, Vishakhapatnam	2009	7.41	First Class with Distinction
3	B.Tech (CSE)	SVH College of Engg	2006	72.87	First Class with Distinction
4	Inter (MPC)	Srinivasa Junior College	2002	93.3%	First Class with Distinction
5	SSC	Gayatri High School	2000	73%	First Class with Distinction

PhD Details:

Title of the Ph.D Thesis	Crop Yield Prediction Using Machine Learning Techniques
Area of Specialization	Machine Learning
Details of Guide	**Details of Supervisor:** Dr. P Krishna Subba Rao M Tech., Ph.D., Professor of CSE & Dean Student Affairs, GVP College of Engineering (A), Visakhapatnam-530048 **Details of Co-Supervisor:** **Dr. M.H.M. KRISHNA PRASAD** M Tech., Ph.D., Professor of CSE UCEK, J N T University, Kakinada Kakinada-533003.

Achievements:

- Qualified **Gate** in 2005 and Secured 90 percentile.

- Qualified **Gate** in 2006 and Secured 93 percentile.

- Qualified Andhra Pradesh State Eligibility Test (**APSET**)-2014

- Ratified as Assistant Professor in CSE Department from JNTUK through GVPW, Visakhapatnam in 2012

- Ratified as Assistant Professor in CSE Department from JNTUK through DIET, Anakapalli in 2009.

- **Top 5% in NPTEL** certification course Problem Solving Trough Programming in C

Teaching Experience: 14 Years and 5 months

S. No.	Work Period		Organization / Institution	Position Held
	From	*To*		
1.	Dec,2011	Till Date	GVPW, Visakhaptnam	Assistant Professor
2.	Dec,2008	Nov,2011	DIET, Anakapalli	Assistant Professor

Subjects Taught:

1. Machine Larning	2. Big Data Analytics	3. Python Programming
4. OOP through C++	5. Distributed Operating Systems	6. Data Structures Through C++
7. JAVA	8. Advanced Operating Systems	9. Data Warehouse & Data Mining
10. BDA-Pyspark	11. Advanced Data Structures	12. Design and Analysis of Algorithms
13. Distributed Systems	14. Compiler Design	15. Data Base Management Systems
16. Computer Organization	17. Data Structures Using C	18. PPL
19. Web Technologies	20. Operating Systems	21. Open Source Software
22. Mobile Computing	25. Big Data & Hadoop	26. Information Retrieval Systems
27. Network Programming	28. Android Programming	29. Mean Stack Development
30. NLP using Python	31. Mean Stack Technologies	

Certification Courses:

S. No	Certification	Duration	Course Name	Score
1	**NPTEL**	Four Weeks	*Python for Data Science*	81%
2	**NPTEL**	Eight Weeks	*Big Data Computing*	80%.
3	**NPTEL**	Eight Weeks	*Introduction to Machine Learning*	69%.
4	**NPTEL**	Eight Weeks	*Programming, Data Structures and Algorithms Using Python*	70%.
5	**NPTEL**	Eight Weeks	*Data Mining*	68%
6	**NPTEL**	Twelve Weeks	*Problem Solving Through Programming in C*	85%
7	**Coursera**	Two Weeks	*Structuring Machine Learning Projects*	

Research Publications:

1. Published a paper on "**Design of an energy-efficient IOT device-assisted wearable sensor platform for healthcare data management**" in Measurement: Sensors Journal, DOI: https://doi.org/10.1016/j.measen.2023.100928, Volume 30, December 2023, 100928 (Elsevier, Scopus Indexed Q1)

2. Published a paper on **"Crop Yield Prediction Using Gradient Boosting Neural Network Regression Model**" International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169, Vol. 11 Issue 03, March 2023.(**Scopus Indexed, Web of Science**)

3. Published a paper on **"An Optimized Ensemble XGBoost Regression Model for Crop Yield Prediction using Correlation-Based Feature Selection Technique**", NeuroQuantology Journal, Vol. 20, Issue 6, June. 2022 **(Scopus Indexed)**

4. Published a paper on "**Machine Learning based Hybrid Ensemble Model using Majority Voting Technique for Crop Prediction"**,Webology Journal, Vol. 18, Nov. 2021 **(Scopus Indexed)**

5. Published a paper on "*Smart-farming: IoT Based Crop Prediction System using Machine Learning Techniques*" in Solid State Technology journal, Vol. 64, Issue. 1, Jan. 2021.

6. Published a paper on **"IoT Based Atmosphere Monitoring System using Hadoop Map Reduce Paradigm"** International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-3, February 2020.

7. Published a paper on "*Monitoring and Analysis of Water Quality using IoT and SVM* " International Journal of Algorithms Design and Analysis (IJADA) Vol. 8 Issue 01, June - 2020.

8. Published a paper on "**Implementing FP-Growth Algorithm using MapReduce for Mining Association Rules**" , Journal of Advanced Database Management & Systems, ISSN: 2393-8730 (online) Volume 6, Issue 2, February 2019.

9. Published a paper on "*Evaluation of Optimized Apriori Algorithm on HDFS using MapReduce in Hadoop Distributed Mode*" International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 (printed version), Vol. 6 Issue 06, June - 2017.

10. Published a paper on "**Implement document clustering for large scale data using MapReduce Paradigm**" International Journal of Computer & Mathematical Science (IJCMS) ISSN 2347 – 8527 Volume 4, Issue 8 August 2015

11. Published a paper on "*Character-Based Symmetric key Algorithm Using Randomized Prime Numbers*" in International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 (printed version), Vol.3 Issue 02, February-2014.

12. Published a paper on "**Productivity Analysis of AODV and DSSV Routing Protocols In MANETs**" in IISR, 2013

13. Published a paper on "**Finest round robin scheduling algorithm using effective time quantum",** in *JOSETT***, 2013**

National/International Conferences:

1. **K. Purushotam Naidu**, (2023) presented a paper on National Conference on Recent Advancements in Science and Engineering (RAiSE-23) organized by Gayatri Vidya Parishad College of Engineering for Women, Visakhapatnam, 5 th &6 th August 2023.Title – Extracting Cryptic Communities in Networks with Maximal Bicliques using Map Reduce Paradigm

2. **K. Purushotam Naidu,** (2018), International Conference on Electrical, Electronics, Computers Communication, Mechanical and Computing (EECCMC) organized by Priyadarshini Engineering College, Tamila Nadu,28th &29th January 2018.

Title – *Comparing Apache Spark and Map Reduce with performance Analysis using Page Ranking Algorithm*

3. **K. Purushotam Naidu**,(2017),Conference on Internet Of Things organized at GITAM University, Visakhapatnam, Andhra Pradesh state, India,11th November 2017

Patents:

- Mr. Purushotam Naidu K published a patient on "**ARTIFICIAL INTELLIGENCE BASED TEA QUALITY CLASSIFIER"** on March 2023, Application Number: 202341013100, Publication Number : 12/2023

- Dr. Purushotam Naidu K published a patent on "**Personalized recommendation systems enhanced by natural language processing capabilities** " on 13/10/2023 Application Number: 202311062490

Books Publication:

- Mr. Purushotam Naidu K published a Book on "**Introduction to Deep Learning"** on April 2023, published by Book Rivers, ISBN: 978-93-5515-963-2

- Mr. Purushotam Naidu K published a Book on "**Machine Learning for Absolute Beginners"** on December, 2023, published by Booksclinic, ISBN: 978-93-5823-854-9

Guest Lectures:

- Delivering Guest Lecture on "Big Data Analytics: Apache Pig and Hive" in One week FDP conducted at CBIT, Hyderabad on 07/02/2024.
- Delivering Guest Lecture on "Artificial Intelligence and Machine Learning for III B.Tech Students at Avanthi Institute of Engineering and Technology.

Professional Memberships:

1. Association of Computer Machinery (**ACM**-8746819).
2. Computer Society of India (CSI- F8004498)

List of FDP'S/Workshops Attended:

1. A One Week FDP on **"*Big Data Computing*"** Organized by IIT Madras, *ELITE NPTEL Online Certification*, Funded by Ministry of HRD, Govt. of India, from Feb-Apr,2019 with a Roll No:NPTEL19CS33S32280199, with Consolidated score of 80%.
2. A One Week FDP on **"Introduction to Machine Learning"** Organized by IIT Kharagpur, ELITE NPTEL Online Certification, Funded by Ministry of HRD, Govt. of India, from Aug-Oct,2018 with a Roll No:NPTEL18CS40S22170473, with Consolidated score of 69%
3. A Three Days Workshop on **"Cryptology & Cyber Security"** Organized by both Department of Computer Science and Engineering & Department of Electronics and Communication Engineering , GVP College of Engineering for Women, Madhurawada, Visakhapatanm Andhrapradesh, India from 22nd March to 24 th March, 2018
4. A Three Days Workshop on **"Biological Inspired Computing& Applications"** Organized by Department of Computer Science & Engineering , GVP College of Engineering for Women, Madhurawada, Visakhapatanm Andhrapradesh, India from 9th March to 11th March, 2018
5. A Five Day FDP on **"Analytics Using R"** Organized by Department of Computer Science & Engineering , GVP College of Engineering for Women, Madhurawada, Visakhapatanm Andhrapradesh, India from 13th November to 17th November, 2017

6. A Three Day FDP on **"Big Data and Hadoop"** Organized by Department of Computer Science & Engineering , GVP College of Engineering for Women, Madhurawada, Visakhapatanm Andhrapradesh State, India from 26th February to 28th February, 2016

7. A One Week FDP on **"Java Fundamentals and Programming"** Organized by Department of Computer Science & Engineering , GVP College of Engineering, Madhurawada, Visakhapatanm Andhrapradesh State, India from 13th February to 19th February, 2016.

8. A Three Days Workshop on **"Internet of Things"** Organized by Department of Computer Science & Engineering , GVP College of Engineering, Madhurawada, Visakhapatanm Andhrapradesh, India from 21st October to 23rd October, 2016.

9. A One Week Workshop on **"Research Challenges and Issues in Big Data and Cloud Computing"** Organized by Department of Computer Science and Engineering, JNTU-K University College of Engineering Vizianagaram Dist Andhrapradesh , India from 27th to 31st January 2015.

10. A Two Days Workshop on "**Android Application Development**" Conducted by Geekslab Technologies pvt Limited at GVP College of Engineering for Women, Madhurawada, Visakhapatanm Dist Andhra pradesh, India from 15th March to 16th March, 2014.

11. Two Day National Workshop on "**Advances in Web Mining and Big Data**" Organized by Department of Computer Science & Systems Engineering , Andhra University, Visakhapatanm Dist Andhrapradesh State, India from 18th -19th December 2014.

12. A One Day International Seminar on "**Security and Software Enigineering(SSE13)"** Organized by Department of Computer Science & Engineering and Information Technology, DIET Anakapalli, AP, India on 22nd Feb 2013.

13. A One Day Workshop on *"Next Generation Internet Protocol-The Challenges Ahead(IPV6)"* Organized by Department of Computer Science & Engineering, DIET Anakapalli, AP, India on 5th May 2011.

14. A Two Days Workshop on *"Signal Processing and Soft Computing & Modeling"* Organized by Department of Computer Science & Engineering, DIET Anakapalli, AP, India on 14th & 15th March, 2009.

15. A Five Day FDP on "**Artificial Intelligence**" Organized by Lendi Institute of Engineering and Technology, Vizianagaram on 22nd & 26th May, 2020

16. A Three Day FDP on "**Data Science Behind Natural Language Processing**" Organized by Lakireddy Balireddy College Of Engg, Mylavaram, Krishna on 08th & 10th June, 2020

17. One week National Level Online Faculty Development Program on "**Online Teaching-Learning Processes using ICT Tools for Education 4.0**" organized by Department of Information Technology, SVPCET(St. Vincent Pallotti College of Engineering and Technology) Nagpur, Maharashtra in association with Computer Society of India(CSI) on 08th & 13th June, 2020

18. A 3-Day Online Faculty Development Program on **'Data Science behind Natural Language Processing'** " in association with Codegnan IT Solutions OPC PVT. LTD. organized by Lakkireddy Bali Reddy College of Engineering, Krishna District, Mylavaram, Andhra Pradesh, on 08th & 10th June, 2020

19. A One Week FDP on **PHP & MYSQL** organized by Sridevi Womens Engineering college on 08th & 10th June, 2020

20. A Two day FDP on **Bloch chain Technology**, organized by Keshav Memorial Institute of Technology on 12th & 13th June, 2020

21. A One Week FDP on **Introduction to AI and ML** organized by Geethangali College of Engineering and Technology on 25th & 30th May, 2020.

22. A Five Day FDP on **Advanced Python Programming using Django**, organized by Malineni lakshmaiam Womens Engineering College on 21st & 25th May, 2020

23. A Five Day FDP on **Innovative Trends in Data Analysis with AI** organized by Malineni Lakshmaiah Womens Engineering College, Guntur on 26th & 30th May, 2020

24. A One Week FDP on AICTE-STTP: *"Advanced Deep Learning Techniques with Python,* Organized by the department of Computer Science & Engineering (CSE), Anurag Group of Institutions (AGI), Hyderabad, Telangana on 27th May & 01st August, 2020.

25. One Week National Online Faculty Development Program on "**Mathematical Elements In Engineering And Applied Sciences**"2020, Organized by Department of Basic Sciences & Humanities (MATHEMATICS), Gayatri Vidya Parishad College of Engineering for Women, Madhurawada, Visakhapatnam from 21st July, 2020 to 25th July.

26. National Level webinar on How to Read a Research Paper Organized by IQAC on 18th July Organized by Visakha Institute of Engineering and Technology, Narva ,Visakhapatnam

27. A Four Day FDP on Python Programming Organized by KL Deemed to be University, Hydarabad on 15th to 18th July 2020

28. Webinar on Build Dynamic web Applications using Servelets &JSP Organized by East West Institute of Technology, Bengaluru on 20th July 2020

29. National Level Quiz on C Programming Organized by SVS College of Engineering,Coimbatore-642109 on 25th July 2020

30. Two Day workshop on Hadoop and Big Data Analytics Organized by Malla Reddy Institute of Technology and Scienec, Hyderabad on 24th to 25th July 2020

31. National Level Quiz on Python Programming Organized by SVS College of Engineering,Coimbatore-642109 on 29th July 2020.

32. Webinar on Evolving new mindset in young engineers to face the world Organized by AXIS GLOBAL Institute, Coimbatore, Tamilnadu on 25th July 2020

33. A One Week FDP Oon SCILAB-an Open source substitute for MATLAB Organized by Sridevi Womens Engineering College, Hyderabad on 23rd to 28th July 2020

34. A Five Day National Level FDP on Recent Innovative Technologies Organized by Thiruvalluvar University Constituent Arts and Science College on 29th July to 02nd August 2020

35. A Five Day Workshop on "Fight Covid-19 Using IOT Organized by Department of ECE, GVPCEW on 06th to 10th July 2020

36. A One Week National Workshop on Best Practices of ICT Tools in Teaching and Learning organized by Jagadguru Rambhadracharya Divyang University, UP on 3rd to 8th August 2020

37. A One Day National Webinar on ANN and its Applications organized by JSS College of Arts, Commerce and Science, Mysuru on 8th August 2020

38. National Level Quiz on C-Programming organized by Gandhi Academy of Technical Education, Telengana on 21st August 2020

39. One Day National Webinar on National Education Policy-2020 organized by Shivaji University, Kolhapur, Maharastra on 23rd August 2020.

40. Webinar on Facial Emotion Recognition organized by Sri Ramakrishna Institute of Technology, Chennai on 22nd August 2020

41. A Five Day FDP on Recent Trends on Computer Science organized by Maharaja Institute of Technology, Mysore on 24th August to 28th August 2020

42. National Level E-Quiz on Geneal Knowledge organized by Govt. Degree College for arts and Commerce, Telengana on 23rd August 2020

43. One Week International FDP on Emerging Trends & Technologies in Data Science organized by GMRIT, Andhra Pradesh on 24th to 28th August 2020

44. Webinar on Lecture-1 Introduction to Data Science organized by Department of Computer Science and Engineering, Gayatri Vidya Parishad College of Engineering for Women, Kommadhi, Visakhapatnam on 13th June 2020.

45. Webinar Series Lecture-2 on Basics of Machine Learning organized by Department of Computer Science and Engineering, Gayatri Vidya Parishad College of Engineering for Women, Kommadhi, Visakhapatnam on 20th June 2020.

46. Webinar on IOT and its Applications organized by Gayatri Vidya Parishad College of Engineering for Women, Kommadhi, Visakhapatnam on 20th June 2020.

47. Webinar on Data Science Lecture-3 organized by Gayatri Vidya Parishad College of Engineering for Women, Kommadhi, Visakhapatnam on 27th June 2020

48. A Three week FDP on Machine Learning using Python organized by APSSDC from 16th August to 4th November 2021

49. A Five Day FDP on "Machine Learning Essentials: Applications and Use Cases" organized by CVR College of Engineering from 18th December 2023 to 22nd December 2023

Administrative Experiences/Other Activities:

1. Coordinator for **JNTUK Online Examinations** in GVP College of Engineering for Women Visakhapatnam.

2. Dr. Purushotam Naidu K has been appointed as **SPOC** from GVPCEW for **Smart India Hackathon 2023**

3. Coordinator for **ML Hackathon-2024** conducted on 6th Jan 2024 at GVPCEW, Visakhapatnam.

4. Mentoring students for **Smart India Hackathon-2023** at GVPCEW. Visakhapatnam

5. Dr. K. Purushotam Naidu, has been appointed as a coordinator for **CSM Students Club "AIMERS"** on 23rd Nov 2023 and in this club conducted different technical and non-technical events.

6. Department Coordinator for **NAAC Criteria-2**

7. Department Coordinator for **NBA Criteria-4**

8. Coordinator for **M.Tech CSE with Data Science**

9. Conducted "**Online Workshop on Python for Data Science**" for two weeks (30 hours) during 20-04-2020 to 4-05-2020. The resource persons are Dr. PVS Lakshmi Jagadamaba and Mr. K Purushotam Naidu.

10. Organized Online Quiz on "**Introduction to Machine Learning**" during 10th June -13th June 2020. A total of around 250 participants participated in the quiz and E-certificates are provided to participants who secured minimum of 70%.

11. Organized a Five day Workshop on "**Applications of Image Processing and Machine Learning**" during 22- 06-2020 to 26-06-2020. The coordinators are Mr. K Purushittam Naidu & Mrs. K Rohini from CSE Department and Mr CVVD Prasad from IT Department.

12. Organizing Committee Member in **BICA-2018** Workshop Conducted at GVP College of Engineering for Women

13. Organizing Committee Member in **WCCS-2018** Workshop Conducted at GVP College of Engineering for Women

14. Mentor for **NPTEL course "Programming in C++"** in 2018

15. Coordinator for **IV B.Tech Projects** 2016-17 in GVP Womens, Visakhapatnam

16. Coordinating **FINTECH** Program that is conducted by **govt. of AP 2016-17**

17. Organizing Committee Member in **Hadoop & Big Data -2015** Workshop Conducted at GVP College of Engineering for Women

18. Member in Developing **Web Applications related to NBA**

19. Developed Web Application for "**ESSAY WRITING** Competition" conducted at GVPCEW on "DIGITAL INDIA"

20. Mentor for **NPTEL course "Programming, Data Structures and Algorithms Using Python"** GVPCEW, Visakhapatnam

21. Conducted two day workshop on **Android Programming in technotsav-17**, GVPCEW, Visakhapatnam

22. Organized Two Day workshop on "**Phone Gap & ITS APPLICATION DEVELOPMENT**" at GVPCEW On 18th and 19th April 2015.

23. Taught CRT classes on **C-programming** for IV-B.Tech Students in GVPCEW, Visakhpatnam

24. Taken classes for II & III B.Tech Students to train Students on **Android Programming**.

25. Taken Gate classes for II & III B.Tech Students to train Students on **Data Structures**

26. Mentor of Team GSPP_30 from DIET for participating in "**The Great Mind Challenge-2010**" Development Program by IBM Annual National Software.

Declaration:

I do here by declare that, the information and the details furnished above are true and correct to the best of my Knowledge.

Date: 09-02-2024
Visakhpatnam   **Dr. K.Purushotam Naidu**