

Bhaskar Kuntimalla

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Senior Technical Lead

Professional Summary:

- **Total 15+ years of experience** in various technologies such as **Python, R, Machine Learning, SQL, Power BI, Tableau, Deep Learning, Computer Vision, NLP, AutoML, MLOps, LLM's, Gen AI, Prompt Engineering, ChatGPT and Robotics.**
- Having Good Hands-on Experience in **Python, R, and Machine Learning Algorithms.**
- Having Experience in **Excel, SQL, Power BI, Tableau, and Data Analysis.**
- Having Experience in **Artificial Intelligence, NLP, Robotics.**
- Good Experience in **Python IDE, Jupyter, Spyder, R Studio, My SQL, PostgreSQL, and SQL Server.**
- Created Rich Visualizations using **Pie, Line, Scatter, Histogram, Bar, Heat Maps, Area, Doughnut, Funnel, Waterfall, Bubble, Ribbon, Text map, 3D Plots, and KPIs** using **Power BI, Tableau, Matplotlib, Seaborn**, Geo-Spatial data using **Folium.**
- Created, Maintained & Scheduled various reports in **Data Analysis, and MySQL.**
- Working experience in Data Analysis reports using **NumPy, Pandas, Matplotlib, Scikit-Learn, SnapML, Tensorflow, Pytorch, and Keras.**
- Created rich visualized Reports and Dashboards using **Power BI and Tableau.**
- Having Limited Experience in **Big data** using **Hadoop, Hive, and Spark.**
- Experience in **Git, GitHub, and DVC** Version Control Systems.
- Extensively worked and developed various models using **Data Analysis techniques, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, LLMs, and Gen AI.**
- Having Experience in **AutoML and MLOps** using **H2O.ai, MLFlow, and PyCarret.**
- Having Experience and Knowledge in **Prompt Engineering and ChatGPT.**

Education:

- **M. Tech (Ph.D.) in Artificial Intelligence and Robotics** in **JNTUA and KL University** in 2017 with an aggregation of 77.61%.

Experience Summary:

- Working as **Senior Technical Lead** in **HCLTech** from Dec 2024 - Present
- Working as **Senior Associate Engineer (AI/ML)** in **iHub-Data** from Jan 2022 – Dec 2024
- Worked as a **Research Associate (AI & Robotics)** as part of **my Ph.D.** in **KL University** from May 2020 to Dec 2021
- Worked as **Asst. Professor (Python, AI/ML, Machine Learning Course Coordinator)** at **KL University** from Mar 2017 – April 2020
- Worked as **In-Charge/Instructor** in **NAC (Skill Development Body, Govt, AP)** from July 2008 – April 2015

Technical Skills:

Operating Systems	:	Windows XP, Windows Server, Linux, SSH GPU Processing (Interactive & Batch), Cloud Computing
Languages	:	Python, R
Database	:	My SQL, SQL Server, PostgreSQL
Reporting Tool	:	Power BI, Tableau
IDEs Worked on	:	Python, Conda (Jupyter, Spyder & R), Visual Studio, SQL, PostgreSQL, Azure Data Factory & AWS Sage maker.

Certified In:

Master Certification in Data Scientist
Master Certification in Artificial Intelligence Engineer
Programming for Everybody by the **University of Michigan** in Coursera
Crash Course on Python by **Google** in Coursera
Machine Learning with Python by **IBM** in Coursera
Data Science by **IBM** in Coursera
PostgreSQL Certification Course by Programming Hub
Introduction to Artificial Intelligence by **IBM** in Coursera
AI for Everyone by **deeplearning.ai** in Coursera

Awards:

Young Team Leader by joining with in one year
Coordinator of Team
Got Appreciation from Management for Excellence
Team Lead for **Healthcare Projects and Mobility Projects**

Project Profile

Project #1	: Scribble Net for Medical Cell Image Annotation Jan, 2022 – July, 2022
Project Description	: We introduce Scribble Net, an interactive image segmentation algorithm to reduce human effort during annotation. Our approach provides users with a pre-segmented image and improves the segmentation iteratively using scribble as annotation input. Our method is based on conditional inference and exploits the learnt correlations in a deep learning network (DNN)
Project #2	: Deep Brain Segmentation using M-Net Algorithm Aug, 2022 – Feb, 2023
Project Description	: we propose an end-to-end trainable Convolutional Neural Network (CNN) architecture called the M-net, for segmenting deep (human) brain structures from Magnetic Resonance Images (MRI). A novel scheme is used to learn to combine and represent 3D context information of a given slice in a 2D slice.
Project #3	: Earthquake Disaster Risk Index (EDRI) and RVS (Rapid Visual Screening) Mar, 2023 – Sep, 2023

Project Description: : iHub-Data collaborates with National Disaster Management Authority (NDMA) to develop an Earthquake Disaster Risk Index (EDRI) and RVS (Rapid Visual Screening) for cities.

Project #4 : **IRASTE (Intelligent Solutions for Road Safety through Technology & Engineering) | Oct, 2023 – Mar, 2024**

Project Description : For the first time, AI will act as a force multiplier and transform Road Safety Engineering. Predictive insights generated via AI can prevent accidents even before they happen.

Project #5 : **AI Based Solutions to Road Surveillance using Drone Footage | Apr, 2024 – Aug, 2024.**

Project Description : Road Surveillance UAVs can collect high-resolution data, which can then be analyzed in real time. The results can then be displayed or printed, and in some cases sent to a central server or cloud for further analysis.

Project #6 : **Integrated Wrong-Way Vehicle Detection and License Plate Recognition System| Sep, 2024 – Present.**

Project Description : This project is an integrated solution that leverages **state-of-the-art deep learning models** for **wrong-way vehicle detection**, **license plate recognition**, and **text extraction from license plates**. It combines vehicle tracking, direction analysis, and OCR (Optical Character Recognition) to ensure comprehensive identification and documentation of traffic violations.

Roles & Responsibilities:

- Designing and developing machine learning and deep learning systems
- To run machine learning tests and experiments
- To implement appropriate ML algorithms
- Design machine learning systems
- Research and implement appropriate ML algorithms-and tools
- Develop machine learning applications according to requirements
- Examine and identify database structural necessities by evaluating organizations operations, applications and programming.
- Prepare accurate database design and architecture reports for management and executive teams.
- Recommend solutions to improve new and existing database systems.

Declaration

I hereby declare that the information furnished above is factual to the best of my knowledge and belief.

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