

P SUMANTH REDDY

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Professional Summary

Highly motivated Data Science professional with 1+ year of hands-on experience in ML, DL, NLP, and Python, adept at delivering real-time projects and comprehensive analyses; currently seeking entry-level roles in Data Science Development and related fields.

Technical Skills

- **Programming Languages:** Python Programming Language.
- **Data Science:** Statistics, Machine Learning (Regression, Classification, Clustering, Time Series Analysis), Deep Learning (CNNs, RNNs), Natural Language Processing (NLP), Generative AI, Retrieval-Augmented Generation (RAG), Data Handling, Data Modeling, Feature Engineering, Model Evaluation, Deployment (scikit-learn, TensorFlow, NLTK, spaCy).
- **Databases:** Microsoft SQL Server, MongoDB.
- **Big Data Technologies:** Apache Spark, Hadoop.

Professional Experience

Data Science Intern

Oct 2023 – Nov 2024

Learnbay, Karnataka

- Collaborated with senior data scientists to implement machine learning models (regression, classification, clustering, time series analysis) for real-time projects using Python and relevant libraries.
- Conceptualized, designed, and deployed five interactive Tableau dashboards to visualize project data, enabling stakeholders to identify bottlenecks and enhance team efficiency by 15% weekly.
- Utilized SQL and MongoDB for efficient data manipulation and in-depth analysis to extract actionable business insights.
- Managed key aspects of the machine learning lifecycle, including feature engineering, rigorous model evaluation, and seamless deployment into production environments using frameworks such as scikit-learn and TensorFlow.

Projects

Generative Conversational Chatbot with RAG Integration for Enhanced Data Interaction

Dec 2024

[Project Link](#)

- Engineered a sophisticated generative chatbot by integrating advanced language models from Google and Meta, and conducted rigorous A/B testing to achieve a 95% query resolution success rate.
- Architected a versatile conversational interface featuring capabilities such as Chat with CSV, Chat with PDF, and Chat with URL, utilizing Retrieval-Augmented Generation (RAG) techniques.
- Implemented robust data retrieval mechanisms from diverse sources to enhance interactions with both structured and unstructured data.
- Applied advanced RAG strategies to ensure context-aware and efficient query resolution, thereby improving overall user experience.
- **Skills & Technologies:** Python, APIs, Natural Language Processing (NLP), Machine Learning, Data Retrieval, Streamlit.

AI-Powered Code Debugging Assistant with Streamlit and Gemini Model

Dec 2024

[Project Link](#)

- Developed an innovative, user-friendly code debugging tool using the Streamlit framework and Gemini AI technology.
- Integrated the Gemini model for intelligent, context-aware error detection and provided actionable code improvement suggestions.
- Enhanced developer productivity by automating debugging processes and offering practical code optimization tips.
- **Skills & Technologies:** Streamlit, Gemini AI, Python, Natural Language Processing (NLP).

Education

Jawaharlal Nehru Technological University, Anantapur

Aug 2019 – May 2023

B.Tech in Computer Science and Engineering(CSE)

Certifications

- Python Programming Language Certification – Learnbay (2023)
- Statistics and Machine Learning – Learnbay (2024)
- Machine Learning Project Completion Certificate – Learnbay (2024)
- Big Data Certification – Learnbay (2024)