P SUMANTH REDDY

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Summary

Data Science professional with 1 year of experience in machine learning, deep learning, NLP, and Python development, skilled in building real-time projects and AI-driven solutions. Passionate about leveraging data-driven insights to solve complex business challenges.

Skills

- **Programming Languages**: Python, SQL, HTML, CSS
- **Databases**: Microsoft SQL Server, MongoDB
- **Visualization Tools**: Power BI, Tableau, Seaborn, Matplotlib
- **Data Science**: Statistics, Machine Learning, Deep Learning, NLP, Data Cleaning, Data Wrangling, Generative AI
- **Big Data**: Apache Spark, Hadoop
- **Others**: Django, Data Structures & Algorithms (DSA)

Experience

Data Science Intern   **Oct 2023 – Present**
Learnbay, Karnataka
- Collaborated with senior data scientists to implement machine learning models for real-time projects, including regression, classification, clustering, and time series analysis using Python and relevant libraries.
- Conducted data preprocessing, cleaning, and exploratory data analysis (EDA) to ensure data integrity for model training.
- Built and deployed interactive dashboards using Tableau and Power BI for effective data visualization and reporting.

- Utilized SQL and MongoDB for data manipulation and analysis to extract valuable insights.
- Focused on feature engineering, model evaluation, and deployment of machine learning models into production environments using frameworks like scikit-learn and TensorFlow.

Data Science Intern   **Jul 2024 – Aug 2024**
Next24 Technologies and Services, Karnataka
- Built machine learning models to house price prediction, delivering actionable insights.
- Performed tweet sentiment analysis using NLP techniques (NLTK).
- Designed and implemented an e-commerce recommendation system, boosting user engagement by 2%.

Projects

Generative Conversational Chatbot with RAG Integration for improved Data Interaction   **Dec 2024**
Project Link
- Developed a generative chatbot model by integrating Google's and Meta's models via API.
- Built a conversational chatbot with features such as Chat with CSV, Chat with PDF, and Chat with URL using Retrieval-Augmented Generation (RAG) techniques.
- Implemented seamless data retrieval from various sources to enhance user interaction with structured and unstructured data.
- Leveraged RAG techniques for efficient and context-aware query resolution.
- **Skills & Technologies:** Python, APIs, Natural Language Processing (NLP), Machine Learning, and Data Retrieval to create an intuitive and responsive chatbot experience.

AI-Powered Code Debugging Assistant with Streamlit and Gemini Model   **Dec 2024**
Project Link
- Developed a code debugging tool using Streamlit and Gemini AI technology.
- Integrated Gemini model for intelligent error detection and suggestions for code improvement.
- Enhanced the developer experience by providing automated debugging solutions and code optimization tips.
- **Skills & Technologies:** Streamlit, Gemini AI, Python, Natural Language Processing (NLP).

Education

B.Tech in Computer Science and Engineering   **Aug 2019 – May 2023**
Sree Rama Engineering College, JNTUA, Andhra Pradesh, India   *CGPA: 7.4*

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)