

# P SUMANTH REDDY

+91 9346315162   [E-Mail](#)  
[GitHub Profile](#)   [Profile](#)   [LinkedIn Profile](#)

## Summary

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A dedicated and detail-oriented Data Science professional with 1 year of hands-on experience in developing and implementing data-driven solutions. Proficient in machine learning, deep learning, natural language processing (NLP), and Python development. Experienced in building real-time projects, conducting data analytics, and developing AI-driven applications. Passionate about applying technical expertise to solve complex business challenges and deliver impactful results.

## Skills

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- **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

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### 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 for 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

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### Generative Conversational Chatbot with RAG Integration for Enhanced 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).

### AI-Driven Ranking Search Engine with Transformer Models for Enhanced Search Accuracy and User Experience

*Project Link*

- Designed a ranking search engine leveraging Transformer models (e.g., BERT, GPT) to provide accurate and relevant search results.
- Utilized advanced Natural Language Processing (NLP) techniques, including tokenization, attention mechanisms, and semantic search, to enhance ranking efficiency.
- Enhanced user experience by delivering precise search outcomes and optimized result relevance.
- **Skills & Technologies:** Transformer Models, Natural Language Processing (NLP), Python, TensorFlow, PyTorch, Semantic Search, Text Preprocessing, Machine Learning.

Education

**B.Tech in Computer Science and Engineering**  
*Sree Rama Engineering College, JNTUA, Andhra Pradesh, India*

**Aug 2019 – May 2023**  
*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)