

RAJASEKHAR NAIDU CHINNAPOTHULA

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Professional Summary

Results-driven Data Science professional with expertise in **Machine Learning (ML)**, **Deep Learning (DL)**, **Natural Language Processing (NLP)**, and **Generative AI (GenAI)**. Highly skilled in developing predictive models, implementing deep learning architectures, and deploying AI solutions using **TensorFlow**, **Keras**, **PyTorch**, and **Streamlit**. Extensive experience in applying **exploratory data analysis (EDA)**, **data visualization**, and **predictive analytics** to solve real-world challenges. Passionate about leveraging data and AI to drive impactful decisions and continuously evolving with cutting-edge technologies.

Technical Skills

- **AI & Machine Learning:** Deep Learning, Neural Networks (ANN, RNN, CNN, LSTM, GRU), **Transformers**, **Attention Mechanisms**, **Backpropagation**, **Gradient Descent** Optimization (Stochastic, Mini-batch, Adam), **Vanishing Gradient Problem**
- **Natural Language Processing (NLP):** Tokenization, Lemmatization, Stemming, Word Embeddings, Named Entity Recognition (NER), Part-of-Speech Tagging
- **Machine Learning Algorithms:** Linear Regression, Logistic Regression, Decision Trees, K-Nearest Neighbors (KNN), Random Forest, Support Vector Machines (SVM), Clustering (K-Means, DBSCAN)
- **Deep Learning Frameworks:** TensorFlow, Keras, OpenAI GPT Models, GenAI, Transformers
- **Tools & Technologies:** Streamlit, Power BI, Tableau, Git, SQL, MySQL, Pandas, NumPy, Matplotlib, Seaborn, Opencv2
- **Other:** GitHub, Visual Studio Code, HTML, CSS, JavaScript.

Work Experience

Data Science Intern | Coincent | Bangalore:

April 2023 – June 2023

- **Salary Prediction Model:** Developed and optimized a predictive model using Python and Machine Learning, achieving 83% accuracy and showcasing technical proficiency in predictive modeling.
- **Data Analysis & EDA:** Conducted Exploratory Data Analysis (EDA) to uncover critical patterns, improving model performance by 20% and demonstrating strong analytical skills.
- **Efficient Data Handling:** Streamlined data preprocessing by 60% with optimized pipelines in Pandas, reducing model training time by 30% and enhancing efficiency.
- **Full-Stack Integration & Visualization:** Integrated MySQL databases with HTML and CSS to create interactive Streamlit applications; presented findings through Power BI dashboards, boosting stakeholder engagement by 40%.

Data Science with Python Intern | Sun square technologies | Nellore, Andhra Pradesh:

Feb 2023 – April 2023

- **Technical Proficiency in Python & Machine Learning:** Gained hands-on experience in Python programming and foundational Machine Learning concepts, reinforcing a strong technical foundation for data science. Developed practical skills in data manipulation and enhanced database management capabilities using MySQL for complex data extraction and analysis.
- **Data Visualization & Communication Skills:** Successfully executed a project involving data visualization with Matplotlib, effectively communicating analytical insights and showcasing proficiency in presenting finding.

Academic Projects

GenAI Document Analysis and Sentiment Analysis

- Built a **Generative AI (GenAI)** model for **document analysis**, utilizing **NLP** techniques to extract key information from large documents.
- Developed a **Sentiment Analysis** model using **Airjet Twitter data** to classify sentiments of tweets, demonstrating expertise in **text classification** and **NLP** techniques.

SmartTech Co. Laptop Price Prediction & Analysis

- Developed a **Laptop Price Prediction** model using **Machine Learning** algorithms (Linear Regression, Decision Trees) to predict the price of laptops based on features like specifications, brand, and market trends.
- Deployed the project as a **Streamlit** app for interactive analysis and prediction.

[Live App: SmartTech Laptop Price Prediction](#)

RAG Model – Personal Chatbot for Naresh IT

- Developed a **Retrieval-Augmented Generation (RAG)** model for a personalized chatbot to interact with users based on institute data, demonstrating advanced knowledge in **NLP** and **machine learning**.

Live App: Naresh Institute Chatbot

YOLOv3 Object Detection (Computer Vision)

- Built and deployed an **object detection system** using **YOLOv3** to detect and classify objects in images.

[Live App: YOLOv3 Object Detection](#)

Education

B.Tech in Electronics and Communication Engineering

AUG 2020 – May 2024

KSRM COLLEGE OF ENGINEERING (Affiliated with JNTUA)

- Maintaining an 90% academic score.

Certificates

- Introduction to Data Science | CISCO
- Python | HackerRank
- Basic Python | Great Learning
- SQL | HackerRank

Leadership & Engagement

- **Academic & Coding Achievements:** Ranked 1st four times and 2nd once in various competitions. Won 1st place in **ML Model Preparation & Presentation** at **KSRM-Kadapa Alumni 2023** and actively participated in coding challenges at SV University and Kaggle.
- **Cricket Leadership:** Captained the Kadapa **district cricket** team, fostering teamwork and strategic thinking through sports leadership.
- **Class Representative (CR):** Showcased leadership and communication skills while co-ordinating with peers and faculty.