

AMAR SAI TEJA KILLADA

Data Scientist/AI/ML Engineer

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Summary

- I am a Data Scientist with over 4+ years of experience in development and deploying machine learning models and NLP applications. I excel in extracting insights from complex datasets, enabling businesses to make informed decisions. Proficient in Python, SQL, and various ML & DL frameworks.
- I am dedicated to delivering data-driven solutions that drive impactful outcomes. Professional data scientist with strong background in statistical analysis, machine learning, and data visualization. Skilled in Python, SQL, and various data processing tools, with focus on delivering actionable insights. Known for collaborative approach, adaptability, and consistently achieving impactful results in dynamic environments. Recognized for problem-solving abilities and innovative thinking in leveraging data to drive business decisions.

Work Experience

Capgemini Technology Services India Ltd – Data Scientist

Hyderabad | Jan 2022 – Present

- Implemented sample projects from Kaggle (Supervised and Unsupervised).
- Created Q/A chatbots using light weight models (PHI-2, GPT-2 models).
- I have done web scraping to collect movie datasets from IMDB site and implemented clustering based on the movie description.
- Implemented NER annotations on email text to recognize chip details and brands.
- Applied sentiment analysis on Zomato dataset with reviews.
- For ASML client created projects using machine learning algorithms and integrated with streamlet and containerized in Azure container applications.

Projects

Project-1: Semiconductors Machines Price Prediction

Developed a regression + classification-based machine learning model to predict tools, parts, cables prices to improve price prediction.

Key responsibilities:

- Understood the Business problems.
- Loaded the data from ASML Client and applied data cleaning techniques.
- Applied Feature engineering, EDA, Data modelling (classification + regression)
- Observed model metrics Evaluation report (RMSE, confusion matrix, and performed

Optimization

- Did hyper parameter tuning techniques on data to Optimize the model.
- Created API using Flask and deployed in Microsoft Azure Container services.

Project-2: Mail Classification

ASML receives numerous emails containing related machines creation requirements from different departments. Manually processing these emails to extract Machine parts specifications and classify them by department is time-consuming and error prone. The goal is to build an automated system for this.

Key responsibilities:

- Automate email text extraction and preprocessing.
- Implement NLP-based department classification.
- Extract machines specification details using regex and NER.
- Provide structured JSON output for integration with other systems.
- Make the solution scalable and deployable

Education

B. Tech – Aditya College of Engineering and Technology, JNTUK, AP — Apr 2021 [7 CGPA]

Inter – MPC - Sri Chaitanya Junior college, AP — Apr 2017 [9.4 CGPA]

SSC, 10th Grade – Loyola English Medium High School, AP — May 2015 [9.2 CGPA]

Certification

[The Complete Python Bootcamp. — Udemy](#)

[Complete Data Science, Machine Learning, DL, NLP Bootcamp — Udemy](#)

Skills

- Programming Languages: Python, SQL (MySQL basics)
- Data Analysis & Visualization: NumPy, Pandas, Matplotlib
- Machine Learning Models: Supervised Learning (Regression, Classification) & Unsupervised Learning
- Natural Language Processing (NLP): Spacy, NLTK
- Machine Learning Frameworks: TensorFlow, Keras, Scikit-learn
- Data Manipulation: ETL, Proficient in data wrangling and manipulation using Pandas
- Evaluation Metrics: Confusion Metrix, hyperparameter tuning using Grid Search and Random Search
- Model Deployment: Azure