

AMBIGAPATHI V

Data Scientist — Data Analyst — ML Engineer

Mettur Salem - Tamil Nadu

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🌐 <https://ambigapathi-v.github.io/portfolio/>

Professional Summary

Aspiring Data Scientist with a strong machine learning, statistical analysis, and data engineering foundation. Proficient in Python, SQL, and TensorFlow, with hands-on experience in building predictive models and data visualization. Strong analytical skills and a passion for leveraging data-driven insights to drive business decisions and innovation.

Relevant Coursework

- Python for Data Science
- Statistical Machine Learning (ML)
- Deep Learning
- Natural Language Processing (NLP)
- Machine Learning
- Data Visualization Techniques
- Big Data Analytics
- Data Structures and Algorithms

Technical Skills

Programming Languages: *Python, SQL*

Machine Learning Tools: *TensorFlow, Keras, Scikit-Learn, NLTK, Spacy, Transformers*

Data Visualization: *Matplotlib, Seaborn, Plotly, Power-BI*

Development Tools: *GitHub, MLflow, Docker, Visual Studio Code, Jupyter Notebook, DVC, Dagshub*

Data Preprocessing: *Feature Engineering, SMOTE, EDA*

Soft Skills: *Team Collaboration, Problem-Solving, Critical Thinking*

Projects

Harmful & Offensive Word Prediction | *Python, NLP, Text Classification — 90% Accuracy* [GitHub](#) **November 2024**

- Developed a Python-based model to predict harmful and offensive words in text, achieving **90% accuracy** in identifying inappropriate content.
- Implemented text classification using **Spacy and NLTK for feature extraction and pre-processing**, enhancing prediction accuracy. using **Spacy and NLTK**, improving response time by **40%**.
- Deployed the model on a web platform, reducing false positives by **30%** and improving content moderation efficiency.

Credit Risk Model Development | *Lauki Finance, Streamlit — 92% Accuracy — GitHub* **August 2024**

- Led the creation of a credit risk model using **logistic regression and decision trees**, categorizing loan applications as Poor, Average, Good, or Excellent, enhancing risk assessment accuracy and model explainability.
- **Collaborated** with cross-functional teams to ensure smooth integration with the financial system, enhancing operational efficiency.

Tomato Disease Classification | *TensorFlow, Python, Deep Learning — 90% Accuracy — GitHub* **September 2024**

- Led a team to develop a **CNN model** with **TensorFlow**, classifying tomato diseases from a dataset of 13,000 images, achieving 90% accuracy to help farmers identify diseases early and minimize crop loss.
- Utilized knowledge from my degree in Agriculture to understand the implications of plant health, enhancing the model's relevance to real-world agricultural challenges.
- Implemented **data augmentation** techniques to enhance model robustness and improved prediction accuracy through hyperparameter tuning.

Revenue Insights in Hospitality Domain | *Power BI, Excel — GitHub* **November 2024**

- Developed a **Power BI** dashboard for Atliq Grands to analyze three months of revenue and market share data to identify trends and performance issues.
- Enabled the revenue team to gain actionable insights about revenue fluctuations and identify key areas of improvement.
- The dashboard provided data-driven insights that helped Atliq Grands recover **20%** of their market share and revenue within the next month.

Education

Annamalai University

Bachelor in Science

May. 2018 – May 2022

Chidambaram, Tamil Nadu

Certifications

Complete Data Science, Machine Learning, DL, NLP Bootcamp- - Krish Naik

Udemy (2024)

Master Machine Learning for Data Science

CodeBasics (January 2024)

Complete MLOps Bootcamp - Krish Naik

Udemy (2024)