# Ambigapathi V

## Data Scientist

Mettur Salem - Tamil Nadu

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https://ambigapathi-v.github.io/portfolio/

## Professional Summary

Aspiring Data Scientist with a strong foundation in machine learning, statistical analysis, and data engineering. 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.

## Education

**Annamalai University** **May. 2018 – May 2022**

*Bachelor of Agriculture* *Chidambaram, Tamil Nadu*

## Relevant Coursework

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

## Technical Skills

**Programming Languages:** *Python*
**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

**Q&A Chatbot** | *Python, NLP, Chatbot Development — 90% AccuracyGitHub* **November 2024**

- Developed a **Python-based Q&A Chatbot** using **NLP** to process and respond to user queries, achieving **90% accuracy** in intent recognition and entity extraction.
- Implemented **intent recognition** and **entity extraction** using **Spacy** and **NLTK**, improving response time by **40%**.
- Deployed the system on a web platform, reducing average response time by **40%** and boosting user engagement by **25%**.
- The solution provides instant and accurate responses to user questions, improving interaction 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.

**Customer Churn Prediction** | *Deep Learning, Streamlit — 85% Accuracy — GitHub* **September 2024**

- Designed and implemented a deep learning model using an **Artificial Neural Network (ANN)** to predict customer churn. Analyzed customer behavior patterns and utilized **Keras** for model development, achieving an accuracy of 85%, enabling strategic retention efforts.
- Led **data preprocessing and feature engineering** to optimize the model's accuracy.

## Certifications

*MySQL Database Certification* *Scaler (2024)*

*Master Machine Learning for Data Science* *CodeBasics (January 2024)*

*Python for Data Science Fundamentals* *Simplilearn (2024)*