

Manikandan P

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Executive Summary

Entry-level AI/ML Engineer skilled in Python, Machine Learning, Deep Learning, SQL, and Data Analysis. Strong problem-solving abilities and a keen interest in applying AI models to meaningful use cases. Highly motivated, adaptable, and committed to continuous learning.

Technologies

Languages: Python, SQL

Machine Learning: Regression, Classification, Clustering, NLP, Model Evaluation

Deep Learning: ANN, CNN (Basics), TensorFlow, Keras

Data Analysis: Pandas, NumPy, Matplotlib, Seaborn

Databases: MySQL

Tools: Jupyter, VS Code, Git, Power BI (Basics)

Projects

Stock Market Prediction Using Social Sentiments (NLP + ML)

[GitHub Link](#)

- Built an end-to-end **Machine Learning and NLP-based web app (Streamlit based)** using Python and Streamlit. .
- Scraped news headlines and social media text, performed **Sentiment Analysis** using VADER/TextBlob.
- Engineered features from sentiment scores and combined them with historical price trends.
- Trained ML models such as **Random Forest, SVM, and LSTM (basic)** to predict stock movement.
- Deployed the model using Streamlit as an interactive web app
- **Tech used:** Python, Streamlit, NLP, Sklearn, Pandas, Matplotlib.

Heart Attack Prediction (Machine Learning)

[GitHub Link](#)

- Cleaned and analyzed healthcare dataset (age, cholesterol, BP, heart rate, etc.)..
- Handled null values, outliers, and performed feature scaling.
- Trained models like **Logistic Regression, Random Forest, KNN**.
- Achieved **86% accuracy** with optimized hyperparameters.
- Built a simple UI using Streamlit for user input.
- **Tech used:** Python, Streamlit, Sklearn, Pandas.

Customer Segmentation Using Unsupervised Learning

[GitHub Link](#)

- Performed **K-Means clustering** on customer purchase patterns.
- Visualized segments using PCA and Matplotlib. .
- SHelped identify high-value customer groups.
- **Tech used:** Python, Sklearn, Matplotlib.

Education

Government Arts and Science College, Kumbakonam, M.Sc.

Aug 2023 – May 2025

Computer Science

- CGPA: 8.3

Dr. Puratchithalaivar MGR Government Arts and Science College,

Jun 2020 – May 2023

Kudavasal, B.Sc. Computer Science

- CGPA: 8.6

Little flower Hr Sec School, Kumbakonam, HSC

Jun 2019 – May 2020

- Percentage: 54.3%

Little flower Hr Sec School, Kumbakonam, SSLC

Jun 2017 – Apr 2018

- Percentage: 78.6%

Certification

Artificial Intelligence Programmer – Cultus Education

Jan 2026

Complete python basic – HackerRank

May 2025