

TRISHALA PANDI S

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EDUCATION

St. Joseph's college of engineering, Chennai.

2021-2025

B.E., Computer Science and Engineering || 9.27/10.0 CGPA

EXPERIENCE

Logic Information Systems

Machine Learning Intern

May 2023

- Undertook an internship in the machine learning domain, deeply engaging with advanced machine learning concepts utilized in logic's internal projects.
- Experienced with a variety of sophisticated machine learning techniques and algorithms, significantly contributing to the development, refinement, and optimization of the company's internal solutions.

Prodigy Infotech

Data Science Intern

November 2023 – December 2023

- Completed multiple projects focusing on advanced machine learning algorithms. Showcased skills in python by developing, testing, and deploying machine models.
- Encompassed full machine learning pipeline including data preprocessing, feature engineering, model selection, and performance evaluation.

Code Clause

Artificial intelligence Intern

August 2023 – September 2023

- Worked as a AI intern where I developed and implemented innovative solutions for the assigned projects.
- One of the key projects I worked on was face detection and facial emotions recognition, where I utilized deep learning techniques to create accurate and efficient models.

Retech Solutions

Artificial intelligence Intern

May 2023

- Worked as an AI trainee where I learnt about the basic machine learning concepts and developed basic prediction projects.

PROJECTS

Personalized renewable energy siting platform - Jupyter notebook, Gradient boosting algorithm, Flask, HTML, CSS, JS

- The project focus on creating a personalized renewable energy recommendation platform based on user location, energy requirements, area size, and budget constraints.
- Utilizing open-source data on renewable energy potential and costs to provide accurate recommendation for solar panels, wind turbines, etc. The aim of this project is to promote renewable energy adoption, reduce carbon emissions, and foster a sustainable future.

Regional Crime analysis insight platform – Colab, Machine learning algorithm, Flask, HTML, CSS, JS, PowerBI, YOLO, Python

- The website offers crime analysis tools including hotspot maps and trend charts based on user-specified parameters.
- Leveraging YOLO object detection and advanced AI algorithms, it provides insights into crime scenes and behavioral patterns, with an integrated warning system for measures.

Multi- modal Disease Prediction: A Hybrid Approach Combining Machine Learning, Deep Learning, YOLO, and SAM for diverse Disease Detection – ML and DL algorithms, VS code, Flask, YOLO, SAM, HTML, CSS, JS, Python

- Developed an interactive web application using flask and ml algorithms to predict multiple diseases based on diverse medical data. Collected, preprocessed, and analysed datasets encompassing symptoms, demographics and medical history.
- Integration of a chatbot feature allows users to make medical queries directly through the web application. Users can ask questions related to their health concerns, symptoms, or general medical information.
- The integration of a drug recommendation system enhances the system's utility by suggesting appropriate medications based on predicted diseases and individual patient profiles.

TECHNICAL SKILLS

Programming Languages: Java- Intermediate, C, Python

Machine Learning: Numpy, Pandas, Scikit-learn, Neural Networks, NLP, OpenCV, YOLO

Front-end development: HTML, CSS, JS, Angular

Frameworks: Flask, Streamlit

Visualization: Matplotlib, Seaborn, PowerBI

COURSEWORK

- Python Training – **Besant Technologies**
- Python for Data Science- **NPTEL**
- **BEC**, Cambridge English entry level Exam
- Artificial Intelligence Virtual Experience Program- **FORAGE [Cognizant]**
- Mathematics for Machine Learning: Linear Algebra- **COUSERA**

- Machine Learning, Data Science, Deep Learning with Python - **UDEMY**
- Python 3.4.3 Training- **Spoken Tutorial Project, IIT Bombay**
- Artificial Intelligence in the real world- **UPGRAD**

ACHIEVEMENTS

Smart India Hackathon 2023

- College-level finalist showcasing innovative problem-solving and teamwork skills.

HACK-AI-THON Feb-2023

- Finalist in 24-Hour internal level hackathon organized by ADS Department, St. Joseph's college of engineering.

KARNATAKA STATE POLICE DATATHON April-2023

- Shortlisted for prototype phase, showcasing expertise in data analysis and strategic thinking through the project "Crime Forecast: Analysing and Predicting Trends in Karnataka.

IEEE EVENT (PLAYING WITH DATA) Sep-2023

- Finalist in the IEEE event where we were asked to build EDA for the provided dataset in round 1 and to visualize the ideas in PowerBI in round 2

MAKE-A-THON March-2023

- Selected as a finalist in 24hrs national level software hackathon organized by Sri Venkateswara College of engineering.

SKILL RACK

- Completed 1000+ problems on skillrack.