AMINA A

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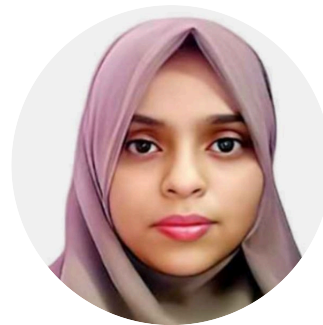
PROFILE

Detail-oriented and motivated Python intern with practical experience in Machine Learning, scripting, and automation. Proficient in Python programming, data structures, and algorithms. Familiar with tools and frameworks including Git, Jupyter Notebook,Data Visualization, NumPy, Pandas, and Matplotlib. Actively seeking opportunities to contribute to development teams and grow in machine learning roles

EDUCATION

B.E- Computer Science and Engineering, Dhanalakshmi Srinivasan Engineering College,Tamilnadu (2022)94%

XII Standard, ST.Joseph's Matriculation Higher.Secondary.School,perambalur,Tamilnadu (2022)92%

X Standard, ST.Joseph's Matriculation Higher Secondary School,Perambalur,Tamilnadu (2020)95%

SKILLS

Tech skill
- Python and its Libraries-numpy,pandas,matplotlib,scikit-learn
- Machine Learning Algorithms - CNN,Transformers,SVM,Gradient Boosting
- Data visualization-Bar chart,pie chart,waffle chart,folium,word cloud
- Streamlit Library-web development using python
- SQL-Queries for data extraction ,manipulation and reporting

soft skills
- Strong verbal and written communication skills
- Effective team collaboration and interpersonal abilities
- Excellent problem-solving and critical thinking skills
- Time management with a focus on meeting deadlines

PROJECTS

Realtime Captioning System, speech to text translation using python
- Implemented the model using Python, speech recognition, scikit-learn, and pyaudio libraries.
- Designed for accessibility applications such as aiding hearing-impaired users or subtitling.

Sign language converter into text, sing python and machine learning algorithm
- Developed a Python-based system to translate static sign language gestures into text using pre-collected image datasets
- Designed and trained machine learning models (using libraries like scikit-learn / TensorFlow / Keras as applicable) for accurate gesture recognition.

CERTIFICATIONS

- Basics of Python-Uniathena
- Machine Learning using Python-NPTEL
- Python-Kaggle
- Data visualization with python -IBM

INTERNSHIP

Python developer intern,   06/2025 – 07/2025 | Trichy, India
PLANT DISEASE PREDICTION-Machine learning
- Worked on real-time machine learning projects using Python, implemented in PyCharm IDE.
- Built the complete application using Flask for the backend and HTML/CSS for the frontend interface.
- Integrated model prediction with a user-friendly web interface for input and results display.
- Tools and Technologies used:Python, scikit-learn, Flask, HTML, CSS, PyCharm, Kaggle, Gradient Boosting, image classification, machine learning

Machine learning intern, CREDIT SCORING AND HEART   08/2025 – 09//2025 | Code Alpha
DISEASE PREDICITON-Machine Learning
- Utilized Numpy, Pandas and scikit-learn for data preprocessing, feature engineering, and model evaluation.
- Implemented models such as Random forest,Logistic regression and Support vector machine achieving up to 92% accuracy
- Gained experience in performance optimization, data visualization, and result interpretation for actionable insights.

LEADERSHIP

Team Lead – Real-Time Captioning System
- Led a team of 4 in developing a real-time captioning system using Python and speech-to-text technologies.
- Allocated tasks, mentored team members, and ensured project milestones were delivered on time.
- Oversaw end-to-end development including requirements gathering, model selection, and system integration.

Team Lead -OIL spill detection using Ml algorithm
- Leading a team project on oil spill detection using ML algorithm to analyze and classify satellite imagery for environmental monitoring
- Overseeing model development, data preprocessing, and performance evaluation while ensuring team coordination and project milestones are met

ACHIEVEMENTS AND AWARDS

First prize | Science Expo 2025, Dhanalakshmi Srinivasan Engineering College,Perambalur
Real Time Captioning System

Best Innovator award | Thiran event, Sri eshwar Engineering College,Coimbatore
paper presentation on Role of ML in Brain Cancer Detection

PARTICIPATION

Python programming workshop, By Top Engineers -IIT Madras

canva canvas non tech event, Sri Eshwar Engineering college-Coimbatore

AI Revolution in Cyber Security Summit'23, By National Cyber Security Research Council

DECLARATION

I hereby declare that the above mentioned information is true and correct to the best of my knowledge and belief .

Amina A

Perambalur, 10/10/2025