Aravinda Lochan K

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About Me

A 3rd-year Computer Science Engineering student with hands-on experience in Data Structures, Algorithms, Full Stack Development, and AI/ML. Adept in building scalable, efficient applications and collaborating in team environments. Skilled in Python, React, Node.js, and ML frameworks like TensorFlow and PyTorch. Proven track record through hackathons and real-world project deployments.

Education

SASTRA Deemed To Be University, BTech. in Computer Science Oct 2022 – Present
- CGPA: 8.73/10.0

Srivi Lions Matric Higher Secondary School June 2020 - May 2022
- Class 12 - 95.83
- Class 10 - 86.8

Projects

BayMax HealthCare Chatbot [Tools used: RAG, NLP, React JS, LLM] Github
- Github: https://github.com/UnAuthDevX/BayMax-
- Built an intelligent chatbot using Retrieval-Augmented Generation and NLP for enhanced LLM response accuracy.

Customer Relationship Management [Tools used: MongoDB, React JS, Django] Github
- Github:https://github.com/aravind25004/CRM_Django_Authentic
- This application is to manage the customer interactions, sales, and support features like user authentications, profile management and dashboards with a responsive interface.

PCB Defect Detection using MobileNet [Pytorch, OpenCV, Deep Learning] Github
- Github: https://github.com/aravind25004/PCB-defect-detection
- Engineered the defect detection model on PCB using Fully Convolution Networks for accurate defect segmentation and MobileNetV2 for the defect classification with the accuracy 97.98 percent and mean IOU of 90 percent.

Energy prediction based on house Area[Python, Machine Learning] Github
- Enhanced regression models to predict household energy use based on area, achieving 90.45% accuracy.

Technical Skills

Machine Learning and Deep Learning: Scikit-learn,Pandas, NumPy, Regression, Classification, Clustering, Model Evaluation (ROC AUC, Cross-validation), PyTorch, TensorFlow, Keras, CNNs, Transfer Learning.
Image Processing: OpenCV, scikit-image, Image Segmentation, Feature Extraction, CNN,Data Augmentation
Full Stack Development : HTML, CSS, JavaScript, React.js, Node.js, Django, Flask, REST APIs, MongoDB, MySQL, SQL, Git.
Soft skills : Problem Solving, Team Collaboration, Time Management, Adaptability, Innovations.

Work Experience

Entrepreneurship Cell, SASTRA [Role: Web Developer, Core Member] 2023 - Present
- Developed and deployed full-stack/MERN web apps for E-Summit events, improving registration efficiency.
- Mentored junior developers and led tech teams, reducing project turnaround time.

Certifications

- NPTEL - Reinforcement Learning.
- AI for Industry Application using MATLAB® and Simulink® SASTRA & MATWORKS.
- NPTEL - Blockchain and its Application.
- Forage - Deloitte Cybersecurity virtual intern.
- Forage - Deloitte Data Science virtual intern.
- Forage - Accenture Data Analyst virtual intern.
- Forage - JP Morgan Chase and Co Software Engineering Virtual intern.
- Attended the workshop on "Building and Experimenting with LLMs" which was conducted by IIT, Madras in SHAASTRA event.

Accomplishments

- Participant, Intel GenAI hackathon.
- Winner, Coding Competition – IIT Bhubaneswar
- Finalist, Hackatonic Hackathon – GDG at PSG iTech