Jishnu Nandakumar

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Summary

Machine Learning Engineer with expertise in **AI, Deep Learning, and Computer Vision**. Proficient in **Python, TensorFlow, Scikit-learn, OpenCV**, and experienced in building and deploying optimized machine learning models.

Education

B.Tech, Computer Science Engineering, SRM Institute of Science and Technology (2023-Present)
CGPA: 9.21/10
Relevant Coursework: Machine Learning, Data Structures Algorithms, Computer Vision, Neural Networks

Skills

Programming: Python, C++, Java, SQL
Machine Learning and AI: TensorFlow, PyTorch, Scikit-learn, Deep Learning, NLP, Computer Vision(Open Vision)
Web Development: HTML, CSS, JavaScript, Flask, React.js
Databases Cloud: MySQL, PostgreSQL, MongoDB, Google Cloud
Version Control: Git, GitHub, Jupyter Notebook

Work Experience

Machine Learning Intern, Prodigy InfoTech (March – Present)

- Developed a **Hand Gesture Recognition** system using **CNN and RNN models**, achieving **92% accuracy** and enhancing real-time responsiveness by **25%**.
- Optimized model inference time, reducing latency by **20%** through algorithmic improvements.
- Processed over **10,000** image samples, enhancing model robustness and generalization.
- Designed and implemented an interactive **GUI**, increasing user accessibility by **40%**.

Projects

Mine vs. Rock Prediction

- Built a **logistic regression model** for sonar signal classification, achieving **90% sensitivity**.
- Applied **feature engineering** techniques using **Pandas, NumPy** to improve classification accuracy.
- Analyzed **2,000+ sonar readings** to enhance anomaly detection in underwater environments.
- Utilized **UCI Sonar dataset** to develop predictive modeling strategies.
- GitHub: Mine vs. Rock

Live Face Detection through Webcam

- Engineered an optimized **real-time face detection pipeline** using **OpenCV and TensorFlow**, achieving **83% accuracy**.
- Integrated **multi-face tracking** to enhance security applications, improving detection efficiency by **35%**.
- Processed **1,000+ facial images** to refine feature extraction and recognition performance.
- Applied **Haar cascades and CNN-based architectures** for robust facial recognition.
- GitHub: Face Detection

Certifications and Training

- **Google AI - Machine Learning Virtual Internship** – AICTE (Jan – Dec 2024)
- **Production Machine Learning Systems** – Coursera (April 2024)
- **Juniper Cloud Certification** – AICTE (2024)
- **The Complete C++ Developers Course** – Udemy (April 2024)

Achievements

- **Top 15 of 2000+ teams** in **Ultron 8.0 Hackathon (SRM Futurix)** – Developed an AI-powered web tool improving processing efficiency by **30%**.
- Contributed over **100+ hours** to open-source AI/ML projects, enhancing collaboration and implementation of cutting-edge technologies.
- **Certificate of Merit** – Cherry+ SRM Club for contributions to app development workshops.

Extracurricular Activities

- Competed in **Zone-Level Football**, ranking in **Top 10 teams**.
- Participated in **Hack of Duty and Ideathon Hackathons**, contributing to AI/ML projects.