Shashaank V

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Skills

Languages: Python, C/C++, Java, SQL, HTML/CSS
Tools and Frameworks: Git/GitHub, Linux, TensorFlow, Keras, Flask, Pandas, NumPy, PyTorch

Education

Vellore Institute of Technology (Chennai) 2025
B.Tech Computer Science Engineering *Current GPA: 8.71/10.0*
SBOA School and Junior College (12th) 2021
CBSE *Percentage: 93.4*
SBOA School and Junior College (10th) 2019
CBSE *Percentage: 95.0*

Projects

Machine Learning for Myocardial Infraction complication
Team project for the IEEE Conference
- Analyzed the use of ridge regression as a feature selector and evaluated various ML algorithms for predicting myocardial infarction complications.
- Gained proficiency in ML algorithms and development tools like VS Code, PyCharm, and Flask.

ImageClef-Image Captioning
Team project for the ImageClef Image Captioning competition
- Participated in the concept detection subchallenge, developing models using ResNet-50, DenseNet, MobileNetV2, placing 8th globally.Analyzed and classified medical images, generating captions based on the classification.
- Currently working to improve the model using the SWIM Transform.

Brain Tumor Detection using Deep Learning
- Developed a deep learning model using VGG-19, ResNet50 and CNN architectures, enhancing ResNet-50 with an attention layer for improved performance.
- Developed expertise in CNN architectures (VGG-19, ResNet-50) and activation layers in deep learning.

Credit Card Fraud Detection using Deep Learning and Homomorphic Encryption
- Utilized encrypted data to process deep learning and machine learning models, ensuring data privacy.
- Learned about Homomorphic Encryption (Microsoft SEAL) and various deep learning and machine learning models.

Reinforcement Learning in the Prisoner's Dilemma
- Applied reinforcement learning to develop adaptive agents, compared their performance with traditional strategies, and analyzed payoffs, cooperation rates, and stability.
- Gained expertise in game theory and reinforcement learning.

Hackathons

V Strykathon Hackathon - Surgical Tool Segmentation
- Developed a deep learning approach with U-Net for high-accuracy surgical tool segmentation.
- Enhanced surgical visualization and automation, advancing computer-assisted surgery.

Prasunethon Hackathon - EcoAgriSpectra AI
- Created EcoAgriSpectra AI, a website integrating AIs for crop disease detection, soil health monitoring, pest detection, and crop yield prediction.
- Designed solutions to improve agricultural productivity and sustainability by providing real-time, AI-driven insights and recommendations.

Certificates

Deep Learning Certification *(NPTEL)*
Artificial Intelligence and Machine Learning Certification *(SmartInternz)*
Wildlife Ecology Certification *(NPTEL)*