Shriram Vatturkar

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Education

Symbiosis Institute of Technology Aug 2022 - Aug 2026
B.Tech. Artificial Intelligence and Machine Learning

New India School (Higher Secondary Education) July 2020-March 2022
11th+12th Aggregate: 80%

Coursework

Courses: Deep Learning, Machine Learning, Natural Language Processing, Computer Vision, Generative Adversarial Networks, Cloud Computing, Object-Oriented Programming, Data Structures & Algorithms
Awards: Microsoft Copilot Championship 2^{nd} Place

Skills

Languages: Python, SQL, C/C++, Java
Tools/Frameworks: Pytorch , Tensorflow, ScikitLearn, OpenCv, Nvidia RAPIDS, LangChain, Amazon Web Services, PowerBI, Linux, RaspberryPI, Arduino, Cisco Packet Tracer

Projects

Legal Search Engine: RAG and GraphRAG-based Legal Document Retrieval
- Developed a deep learning-powered legal search engine for corporate law using RAG and GraphRAG for precise document retrieval and summarization
- Implemented Neo4j-based knowledge graphs and Pinecone vector search for hybrid retrieval, combining semantic and relationship-based querying
- Built an interactive Gradio-powered UI for intuitive querying and graph visualization of legal document relationships

Cognitive Disorder Identification: Identification of several stages of Dementia using Deep Learning
- Developed a model which classifies MRI of brain scans into dementia stages using machine learning as well as deep learning techniques
- Implemented and compared multiple AI models including CNN (VGG11, VGG16), SVM, KNN, Decision Trees, and Random Forests for MRI image classification
- Processed and analysed a dataset of 6400 MRI brain scans, addressing challenges such as class imbalance and subtle image differences between dementia stages

Stock Watch: Realtime Stock Market Analysis using Machine Learning
- Created a Web Application which analyzes real time sentiment of news headlines related to stock market
- Implemented as a Machine Learning model with Flask, ReactJS, Google API

Face Shape Analyzer: Find out your Face Shape
- Developed an offline model which inputs facial images and classifies face shape based on different categories
- Implemented Image Processing techniques using OpenCV library and Haar Cascade

Competitions

Microsoft Copilot Championship: 2^{nd} Place Winner
Flipkart GRID 5.0
Amazon ML Summer School Competition
Tata Crucible Campus Quiz
PICT Hackathon

Hobbies

TouchTyping(100wpm), Motorcycling, Video Editing, Swimming, Culinary, Gym