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Pranav Prakash Chandra

A versatile AI/ML Engineer with strong expertise in software development, machine learning, large language models (LLMs) and diffusion models. I am an inquisitive person wanting to continuously learn and apply the latest, cutting edge technologies. I am passionate about the ethical application of AI technologies in the field of medicine, life sciences and education.

Work Experience

Software Engineer (GenAI) **Jan 2025 - Present**

Servion Global Solutions Pvt Ltd, India

- Designed and Developed AI workflows (RAG, Agentic,etc) and Proof-of-Concepts for internal applications
- Developed APIs and background services to facilitate the AI workflows.
- R&D'd several AI workflow frameworks like langchain, langgraph, Model Context Protocol (MCP)

Machine Learning Engineer(Intern) **Jul 2024 - Nov 2024**

Homy, Sweden

- Developed machine learning pipelines (RAG)
- Developed the corresponding APIs to access them

Intern **Jun 2019**

OneYes Technologies

- Worked on basic concepts of IoT-based technologies like sensors and actuators
- Worked on a small scale IoT project based on Automatic Signaling using Arduino UNO

Education

Master of Science in Image Analysis and Machine Learning **Aug 2021 - Dec 2023**

Uppsala Universitet
Uppsala, Sweden

- Introduction to Image Analysis
- Advanced Probabilistic Machine Learning
- Advanced Image Analysis
- Statistical Machine Learning
- Deep Learning for Image Analysis
- Data Engineering

Thesis Project: Comprehensive Study of Brain Age Prediction using Classical Machine Learning and Neural Networks

BE in Computer Science and Engineering **Jun 2016 - Jul 2020**

Sri Sai Ram Engineering College
Tamil Nadu, India

Thesis Project: Monitoring Mental Health using Physiological Signals

Projects

Understanding and Optimizing BrainAge prediction

(12/2023 – 06/2024)

- Implementing Ensemble Neural Network Models to improve and optimize the BrainAge prediction pipeline.
- Implementing gradCAM, Saliency Maps and other XAI algorithms on a custom convolutional neural network to understand its training process for the brain age prediction and using the insights to improve the prediction pipeline.

Prediction of Brain Age using Conventional Machine Learning and Neural Networks

(02/2023 – 08/2023)

Implementing executable brain age prediction pipeline with Machine learning and Deep learning techniques using ScikitLearn and PyTorch.

Comparison of Deep Learning and Machine Learning Models in Classification of Hand drawn Spiral for Parkinson's Diagnosis

(11/2022 - 01/2023)

Provide a comparative analysis of the performance of several machine learning models in identifying Parkinson's and control patients from the features extracted from a pre-trained CNN model (ResNet50)

Vertebrae Segmentation and Labelling for Radiotherapy Application

(09/2022 - 01/2023)

Develop software to segment and label the vertebral bodies in CT images. Integrate the method into RayStation using its scripting API which is written in Python and Visualize the results in RayStation.

Monitoring Mental Health using Physiological Signals

(10/2019 - 03/2020)

Monitoring the emotional state and overall emotional health at regular intervals every day by maintaining a record of the patient's emotional health data.

Skills

Programming Languages :	Python, MATLAB, Java, C, C++, C#
Database Technologies :	MySQL, PostgreSQL, Pinecone, MongoDB, OpenSearch, MS SQL Server
Frameworks :	PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV, LangChain
LLM & AI Skills :	Retrieval-Augmented Generation (RAG), Agentic AI workflows, Prompt Engineering, Hugging Face Transformers, Vector Databases (Pinecone, Pgvector)
Data Visualization Tools :	Tableau, Power BI, Matplotlib, Seaborn
APIs :	FastAPI, Flask, OpenAI API
Tools & Platforms :	AWS, Docker, Git
Environments :	Windows, Linux, macOS