SNEHIL SEENU

Mobile: +91-9321894469
Email: seenu.snehil01@gmail.com
Github: github.com/seenusnehil
LinkedIn: linkedin.com/in/snehilseenu

Education

- **University of Mumbai** — Mumbai, India
  Bachelor of Engineering - Computer Science; GPA: 9.68 — *August 2020 - July 2024*
  Courses: *Operating Systems, Data Structures and Algorithms, Digital Logics, Artificial Intelligence, Machine Learning, Computer Networking, Databases, Distributed Computing*
- **Kendriya Vidyalaya INS Hamla** — Mumbai, India
  Class 12 CBSE; Percentage: 81.6% — *May 2019*

Skills

- **Languages**: Python, C++, Java, Golang, JavaScript
- **Databases**: Mysql, SQlite, Hadoop
- **Data Science Tools and Libraries**: Tensorflow, Keras, OpenCV, SciPy, Hugging Face, PyTorch, Tableau, Power BI
- **Soft Skills**: Leadership, Teamwork and Collaboration, Technical Writing, Public Speaking, Research Presentation

Projects

- **SimplifyMe**
  Steamlining Content Summarization using Transformer Models — *March 2024*
  - This is an **open-source** software to generate concise summaries of research papers, especially in **IEEE** format.
  - Engineered this software using **BART** and **Hugging Face** Transformers, leveraging **Python** for implementation, **PyTorch** for model development, and NLP techniques for data preprocessing, fine-tuning, and effective summarization.
  - Attained an accuracy of **83%** in distilling research papers into concise summaries by efficiently tuning hyperparameters of the transformer, with some good scope of improvement.
- **AutoPlanner**
  Genetic Algorithm driven Automatic Timetable scheduler — *May 2023*
  - This is an automatic timetable scheduler that helps universities and organizations to schedule timetables efficiently.
  - The software is built with **Genetic Algorithm** at its core using Python (NumPy, Pandas) for optimization, integrating a **Flask** backend with a **Java swing** frontend for seamless user interaction and **resource allocation**.
  - Achieved **91%** accuracy in the Genetic Algorithm-driven automatic timetable scheduler with proper resource allocation and **optimization**.

Experience

- **Fusion Tech Technologies** — Remote
  Machine Learning Engineer - Internship — *Dec 2022 - May 2023*
  - Utilized **Radiomics** and **texture analysis** techniques on brain images, extracting quantitative features to detect tumor irregularities with an accuracy of **88%**.
  - Implemented **ResNet, Darknet,** and **VGG-19 CNN** architectures for image-based malware detection, achieving **95%** accuracy.
  - Integrated **LSTM** architecture to conduct **sequence analysis** on system call data and network traffic, leveraging **temporal dependencies** for effectively identifying potential malware activity within system logs.

Achievements

- Received certificate of appreciation from Google Developer Student Club, RGIT Mumbai, for conducting workshop on **"Machine Learning 101"** as a **speaker** - September 2022
- Represented college at the **Grand Finale** of **Smart India Hackathon (SIH)**, organized by Government of India - August 2022
- Secured a Global **Rank 4** in an online AI Hackathon conducted by Assembly AI - November 2023

Research Work and Publications

Snehil S, Mohit P, Shubham S, Pratham S. (2023)*Efficient Content Summarization with BART: A Comprehensive Exploration and Evaluation* - (Submitted to IEEE, under evaluation)