

DIVANSHU SINGH

Machine Learning Engineer

divanshu.singh2002@gmail.com | +918459406684 | Pune

[Linkedin](#) | [GitHub](#)

EDUCATION

MIT Academy of Engineering
Information Technology Bachelor's
CGPA: 9.1

Pune
May 2020 - May 2024

EXPERIENCE

IEEE Bombay Section and Alhansat Solutions Pvt LTD | Fullstack developer intern Pune | Sept 2023 - Nov 2023

- Designed, implemented, and maintained a dynamic online web API tool, showcasing end-to-end development capabilities.
- Utilized Svelte and Flowbite to create responsive and user-friendly front-end interfaces.

The VCP LLP | Data Science Engineer

Remote | Dec 2023 - Present

- Leveraged APIs for comprehensive data gathering on key individuals in financial news, facilitating deep market analysis.
- Utilized Selenium automation and web scraping for efficient data extraction from diverse online sources.
- Applied NLP and deep learning for rapid summarization of web-scraped news articles, extracting actionable insights.
- Integrated Large Language Models (LLMs) for automated competitor analysis, streamlining market evaluation processes.
- Conducted thorough financial analysis of competitors using LLM-generated data, aiding strategic decision-making for VCP.

SKILLS

Programming Languages: Python, C++

Libraries/Frameworks: Scikit-Learn, TensorFlow, Keras, PyTorch, Pandas, NumPy, Matplotlib, Seaborn, Svelte, Flowbite, React, NodeJS, Bootstrap, Selenium

Tools / Platforms: Jupyter Notebooks, Microsoft Power BI, Google Colab, VS Code, GitHub, StreamLit, GCP, AWS

Databases: TypeORM, MySQL, MongoDB, SQL

PROJECTS / OPEN-SOURCE

TimeLog: an Automatic Timetable Generator | Link *Typescript, HTML, CSS, DBMS, TypeORM, Machine Learning, Genetic Algorithm, Nest.js, Next.js, REST API*

- Timelog is a genetic algorithm-based web app that can auto-generate optimal timetables when provided with desired time slots, rooms, divisions, etc through user input.

Crop Disease Prediction *Deep Learning, Artificial Neural Networks, DBMS, HTML, CSS, Javascript, Node.js, ReactJS, CNN*

- Tool for farmers and agricultural experts to diagnose crop diseases through visual inspection.
- The webapp uses a convolutional neural network (CNN) to analyze the image and determine whether the crop is diseased or not.
- Analyzes the crops and provides guiding steps to overcome the disease or prevent the disease from spreading over.

SightScan | Link

Python, CNN, GitHub

- A Streamlit app that uses deep learning pre-trained models to classify and identify objects from images captured by users.

Aspect Based Sentiment Analysis for Healthcare Reviews *Python, TensorFlow, Keras, NLP, Word Embeddings, Neural Networks*

- Developed hybrid neural network models achieving 98% accuracy in ABSA.
- Provides actionable insights for healthcare providers from patient reviews.
- Aimed to revolutionize the healthcare industry by enhancing service quality.

CERTIFICATIONS

- Azure AI Fundamentals - Microsoft.
- Azure Data Fundamentals - Microsoft.
- SkillsBuild AI and Cloud Essentials - IBM.