

VIRAT SRIVASTAVA

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EDUCATION

- **Integrated Masters of Technology in Computer Science and Engineering** (2021 - 2026)
Specialisation in Artificial Intelligence and Machine Learning
Cumulative GPA - **7.0**, VIT Bhopal University, Bhopal, 466114, M.P. (2021 - 2026)
- **XIIth**, Percentage - **74.4**, Champion School, Arera Colony, Bhopal, 462016, M.P. (2019 - 2021)
- **Xth**, Percentage - **64.4**, Champion School, Arera Colony, Bhopal, 462016, M.P. (2018 - 2019)

SKILLS

- **Tech Stack:** Machine Learning, Deep Learning, LLM, Artificial Intelligence, **Git**, GitHub, Deep RL Algorithms, **System Design**, Microservices, **Software Development**, Linux, **Data Structures**, Software Integration, Data Pipelining, **PyTorch**, **TensorFlow**, **Keras**.
- **Languages:** **Python**, **C++**, **C**, **MySQL**, **PostgreSQL**, **CUDA**, **JavaScript**, Node, Docker, Kubernetes.

WORK EXPERIENCE

National Remote Sensing Center, ISRO (September, 2024 - October, 2024)
Machine Learning Project Intern *On-Site - Hyderabad, India*

Roles: • ML Ops • Machine Learning Engineer • Deep Learning Engineer • Data Scientist

Projects: • Renewable Solar Energy Estimation in Urban Area using Satellite Images

- Developed **Deep Object Detection and Classification Models** for Urban Development and
- Programmed over 3 data preprocessing and post processing pipelines for **3.5 million square kilometers**
- Demonstrated Project with ground truth accuracy of **97% to 99%** for all pipelines

Omdena Mexico (July, 2023 - June, 2023)
ML Developer *Remote - Mexico City, Mexico - Bhopal, India*

Roles: • Deep Learning Engineer • Data Scientist

Projects: • AI Based Road Inspection System

- Delivered **model training** and **pre-processing** on **3,000** Images, reducing parameters by **30%**.
- Collaborated with **3** teams, improving **model accuracy** to **85%** thus, delivering projects on time.
- Contributed over **30%** of Geo-spatial Data Collection and Model Optimization.

PROJECTS

Trade Agents

Roles: • Quantitative Analyst • Machine Learning Engineer • [GitHub](#)

- Designed and deployed over **10,000** unique agents across listed stocks, each with distinct configurations to optimize predictive accuracy and risk management.
- Reduced processing time by **50%** using containerization on AWS, enabling real-time trade decisions with 500ms latency using an Integrated Alpha Vantage API.

Screen time Reduction Application

Roles: • Software Architecture Design • Machine Learning Developer • [GitHub](#)

- Built **Machine Learning Pipeline** for **camera frames as input data** with **90% accuracy** to turn off the screen when toddler face are detected in the frames reducing phone addiction.

Self Landing Rocket System

Roles: • ML Engineer • ML Engineer • C/C++ Developer • [GitHub](#)

- Built Deep Reinforcement Learning Pipeline capturing multi-sensor input data streams with accuracy of 85% CNN model for point of reference object detection and corrective steering.
- System is validated and tested on MATLAB, integrating with Sensor and Drone Toolbox for Data Capturing and Analysis with 20+ open ended nodes for higher complexity development.

EXTRA-CURRICULAR ACTIVITIES

- As a Tech Team Member at AI Club VIT Bhopal, you developed a Crop Fertilizer Recommendation Model, increasing farm production by **24%** and optimizing fertilizers and resource usage by 37%.
- AI Club **Secretary**, VIT Bhopal. Led the largest club at VIT Bhopal, managing team dynamics and organizing 12 Public speaking events, Workshops and Hackathons. Coordinated multiple collaborative projects, demonstrating strong organizational and leadership skills.