

VIRAJ MHASKE

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SUMMARY

Artificial Intelligence and Data Science graduate with hands-on experience in machine learning, deep learning, and computer vision. Skilled in designing and training neural network models for real-world applications such as facial emotion recognition and anomaly detection. Strong understanding of data preprocessing, model evaluation, and end-to-end ML workflows. Actively pursuing opportunities to solve complex problems through data-driven approaches while continuously learning and applying emerging technologies in the AI domain.

EDUCATION

Bachelor's Degree in **Artificial Intelligence and Data Science** with **Honors in Cyber Security** from Vidyavardhini's College of Engineering and Technology - **CGPA - 7.4** (2020 – 2024)

H.S.C. in **Computer Science**, Vidyavardhini's E.S. Andrades College of Science - **64.20%** (2018 – 2020)

S.S.C. from Ganpat Gagnnath Vartak Vidyalaya - **84.80%** (2018)

SKILLS

- **Programming Languages:** Python, C++, Java, JavaScript, SQL.
- **Frameworks and Libraries:** TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, Flask, FastAPI, OpenCV
- **Databases:** MySQL, MongoDB, SQLite.
- **Tools and Platforms:** Git, GitHub, VS Code, PyCharm, IntelliJ IDEA, Docker.
- **Operating Systems:** Windows, Linux (Ubuntu), macOS.
- **Languages:** English, Marathi, Hindi.

EXPERIENCE

Technical Team Member

Mar 2023 - May 2024

NSDC Committee

- Led the launch and integration of TechZette, a technical magazine, enhancing platform usability and increasing site navigation scores by over 3 points.
- Coordinated large-scale technical events including the NSDC Committee inauguration and TechBlitz competitions, engaging 200+ attendees and boosting community participation.

Internship at TCS

Oct 2024 - Nov 2024

Cybersecurity Analyst Job Simulation

- Executed IAM simulations and created 6+ detailed process flowcharts to improve access control documentation.
- Analyzed cybersecurity vulnerabilities and proposed actionable recommendations, addressing 3 key areas of improvement in IAM practices.

Internship at Labmentix

Apr 2025 - Present

AI and Data Science Intern

- Engineered a deep learning-based facial emotion recognition system (DeepFER) leveraging CNNs, achieving a 72% validation accuracy on real-world datasets and improving emotion classification performance by 15%.
- Conducted exploratory data analysis (EDA) on 10,000+ Netflix user and content records to identify trends in viewer preferences, analyze genre distribution, and detect patterns in content ratings, leading to data-driven insights using Python-based analysis.

PROJECTS

DeepFER: Facial Emotion Recognition using Deep Learning [↗](#)

- Built a Convolutional Neural Network (CNN) using PyTorch for facial emotion recognition, achieving 72% validation accuracy.
- Trained the model to classify 7 facial emotions (e.g., happy, sad, angry) using efficient data pipelines and GPU acceleration.
- Applied preprocessing techniques with OpenCV, including face detection, normalization, and data augmentation to enhance model generalization.
- Published the complete project on GitHub with modular, well-documented code for easy experimentation and reproducibility.

Delicious Recipe - AI recipe [↗](#)

- Developed an AI-powered recipe app using the Gemini API, enabling personalized meal suggestions based on user preferences.
- React.js: Front-end framework for building a responsive and user-friendly interface.
- Node.js & Express: Back-end server for handling API requests and user data.

Stock Market Anomaly Detection using Python [↗](#)

- This project focuses on detecting anomalies in stock market data using Python.
- It leverages two popular anomaly detection techniques: Z-Score and Isolation Forest.
- The project is designed to analyze stock price returns and identify unusual patterns.
- It aims to detect significant market events or data irregularities through these techniques.

CERTIFICATIONS

- Machine Learning with Python (ML0101EN, provided by IBM) [↗](#)
- Master in Artificial Intelligence (Provided by Udemy) [↗](#)
- Prompt Engineering for Everyone (AI0117EN, provided by IBMSkillsNetwork) [↗](#)
- SQL and Relational Databases 101 (DB0101EN, provided by IBM) [↗](#)