Vedant Dilip Shinde

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Bachelor of Technology
Ramrao Adik Institute of Technology

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GitHub Profile
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Education

•Bachelor of Technology in Computer Science and Engineering(AIML) *2022-26*
Ramrao Adik Institute of Technology, Navi Mumbai CGPA: 7.66

Projects

•Antro [Link] *March 2024*
Python, MongoDB, Javascript, HTML/CSS, Phidata, AgenticAI

– Developed an e-commerce website with the feature of **Interior AI assistant**.
– By inputting the photo or video of the room, our interior AI assistant can recommend improvements in the room.
– Supported with neat website layout and payment options.

•Parkinson's Disease Prediction *January 2025*
Python, Intel OpenVino, Flask, Dash

– Building a machine learning pipeline to predict Parkinson's disease using voice frequency features, leveraging models like SVM, Random Forest, Gradient Boosting, and **Stacking ensemble** for improved prediction accuracy.
– Applied data preprocessing, feature engineering, and class imbalance handling (SMOTEENN) to enhance model performance and generalization.

Certificates

–Statistical Learning with Python [Link]
Stanford Online
∗ Built and evaluated predictive models using statistical learning algorithms (linear regression, logistic regression, decision trees, KNN) with Python (scikit-learn, pandas, numpy).
∗ Performed data preprocessing, feature engineering, and dimensionality reduction (PCA) to improve model accuracy and efficiency.
∗ Applied cross-validation and hyperparameter tuning to optimize models, and visualized insights using matplotlib and seaborn.

–Machine Learning and AI with Python [Link]
HarvardX
∗ Developed machine learning models for classification, regression, and clustering tasks using Python libraries such as scikit-learn, TensorFlow, and pandas.
∗ Implemented key AI concepts including supervised and unsupervised learning, neural networks, and reinforcement learning, solving real-world problems with structured datasets.
∗ Applied model evaluation techniques, hyperparameter tuning, and visualization tools (matplotlib, seaborn) to analyze performance and communicate data-driven insights.

Technical Skills and Interests

Programming & Scripting: JavaScript, TypeScript, Python, Java, C, R, SQL (MySQL, Cassandra, Neo4J)
Frontend: React, Vite, Tailwind CSS, Angular, jQuery, Next.js, Vue.js, Bootstrap
Backend: Node.js, Express, Flask, JWT-based authentication
Cloud/Databases:AWS, Azure, Heroku, Vercel
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.
Data & ML Tools: TensorFlow, Keras, scikit-learn, NumPy, Pandas, Matplotlib, Plotly, OpenCV, Streamlit
Other Tools: Git, GitHub, Markdown, LaTeX, Canva, Figma, Web3.js
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

Extracurricular

– **Intel OPEA Hackathon(Ideation)** hack2Skill intel Hackathon *May 2025*
∗ InsightCopilot+ an AI-powered document analysis tool designed for enterprises. It processes PDF, Excel, and image files to extract text, tables, and key insights using OCR, NLP, and semantic search. The system summarizes content, answers business questions, and enables audit reasoning through context-aware responses.

– **Shell AI Hackathon** HackerEarth *July 2025*
∗ We modeled a ML model of blend proportions in fuel to get efficient potential blend combinations. Then, identified optimal recipes that maximize sustainability while meeting specifications.
∗ We achieved a rank of **375** out of 1500 and obtained a fuel blend accuracy of **80.697%**