

VAIBHAV CHAVAN

Navi Mumbai, Maharashtra, India

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Education

Ramrao Adik Institute of Technology (RAIT), D. Y. Patil Deemed to be University **Expected 2026**
B.Tech in Computer Engineering (Minor: Artificial Intelligence and Machine Learning), CGPA: 9.3/10 *Navi Mumbai, India*
Reliance Foundation School, Koparkhairane — CBSE Class 10: 92.8%, Class 12: 73.4% (2020–2022)

Experience

NCR Atleos Corporation **Mar 2026 – Oct 2026**
Data Scientist Intern *Vikhroli, India (Hybrid)*

- Delivered executive analytics for the Network Analytics team, reporting to the COO of Solutions through Power BI dashboards, advanced Excel analysis, PowerPoint decks, and weekly/monthly summaries supporting data-driven decisions; leveraged LLMs and prompt engineering to enhance reporting workflows.
- Maintained and analyzed large-scale BI data across 160 datasets, 6TB of data, 30+ dashboards, and datasets containing up to 2B rows, supporting APAC intercompany reporting and reliable business analytics.
- Automated recurring reports and email distribution using Python, advanced Excel, Power BI, Git, and internal workflows, improving reporting consistency and reducing manual effort.
- Supported Finance and Income Tax teams by automating related-party transaction reporting across approximately \$500M in transaction value, saving an estimated 3–4 months of employee effort and improving reporting efficiency.
- Developed AI-enabled and multi-agent workflow solutions using LLM tools, prompt engineering, and Python to streamline report preparation, analytical summaries, documentation, and internal business processes.
- Prepared analytical summaries, KPI callouts, and business recommendations for stakeholder meetings and recurring reports, translating customer-network and operational data into actionable insights and decision-support recommendations.

Amazon ML Summer School **Aug – Sep 2025**
ML Summer School Mentee *Virtual*

- Selected among 3,000+ applicants across India for Amazon's highly selective Machine Learning Summer School.
- Completed industry-led training in Supervised Learning, Deep Learning, Reinforcement Learning, Generative AI, LLMs and Unsupervised Learning, strengthening applied ML and analytical problem-solving skills.

Center for Development of Advanced Computing (CDAC) **Aug 2024 – Mar 2025**
Virtual Reality Development Intern *Juhu, India*

- Built a VR walkthrough with 50+ assets, blending forest design, 3D modeling, and optimization for scalable deployment.
- Boosted performance by 40% using occlusion culling, batching, mesh/LOD optimization, and texture compression; configured builds with Unity URP and Vulkan for Oculus Quest.
- Recognized as the institution's sole VR developer, representing the college at SIH and delivering the demo ahead of the Ram Mandir inauguration, showcasing precision, timeliness, and innovation. [Video]

Academor (Online) **June – July 2023**
AI Developer Intern *Remote*

- Engineered and fine-tuned image classification models using Scikit-learn (Python) on a 3,000+ image multi-class dataset, applying AI/ML techniques like tokenization and hyperparameter tuning for over 98% accuracy.
- Programmed a voice-controlled image capture tool in Python, cutting data collection time by 60%.

D. Y. Patil Center for Innovation & Incubation, in partnership with (Grok) **Jan 2023 – June 2023**
Smart Technologies Research Intern *Navi Mumbai, India*

- Worked with IoT projects including Raspberry Pi, automated cars, and sensor-based smart doors.
- Explored 3D printing and industrial IoT applications during the Grok Internship.

Projects

Food Review System – Sentiment Analysis **July 2024 – Jan 2025**
Python, scikit-learn, NLTK, Pandas

- Built a sentiment analysis software product using 40,000+ food reviews (Zomato, Yelp), enabling hotels and restaurants to understand client sentiment, strengthen customer connections, and extract market-ready actionable insights.
- Implemented a hybrid NLP pipeline with TF-IDF, SVM (RBF), and domain-specific lexicons; applied SMOTE, lemmatization, slang handling, and keyword-thresholding to enhance class balance and neutral sentiment accuracy.
- Achieved 98% training accuracy and 82% real-world accuracy; deployed the product as a Django-based software platform optimized for real-time client usage, demonstrating strong analytical thinking and builder mindset.

Retail Financial Analysis Dashboard **April 2025 – Aug 2025**
Python, MySQL, Power BI

- Analyzed sales, orders, profit, and discount data to evaluate overall business performance (92M+ sales, 13M+ profit).
- Built an interactive Power BI dashboard showcasing KPIs, country-wise sales, segment profit margins, and top products.
- Identified key revenue drivers and segments with lower profit margins to support better business decisions.

- Created an immersive VR walkthrough of Ram Mandir with **50+ 3D assets**, covering key architectural and cultural features.
- Improved performance by **40%** through occlusion culling, static batching, and mesh optimization in Unity.
- Deployed a **1.2 GB APK** on Oculus Quest featuring **3 interactive scenes** using URP and Vulkan for high visual quality.
- Delivered the demo **a day before the actual Ram Mandir inauguration**, demonstrating precision and timeliness.

Realtime Chat Application (MERN) | MongoDB, React.js, Node.js, TailwindCSS

July 2023 – Nov 2023

- Built a **scalable web application** for real-time chat using **TypeScript, Websockets**, and **WebRTC** with **JWT authentication & profile management**, supporting **100+ concurrent users** during testing and ensuring reliability through rigorous **Debugging**.
- Implemented **Socket.io** for instant messaging and online user status, applying strong **software engineering** and **application design** principles to reduce message delivery latency to under **150ms**.
- Collaborated with **product managers** to align features with business goals, conducted **code reviews**, and deployed the full-stack app with **Zustand** and **TailwindCSS/DaisyUI**, achieving a **25% improvement in UI responsiveness**.

Air Keyboard – Computer Vision | Python, OpenCV, PyCharm

June 2023 – July 2023

- Built a virtual keyboard using **hand-tracking** and **computer vision** with **OpenCV**, achieving **90%** gesture detection accuracy across varied lighting conditions and enabling hands-free typing.
- Optimized gesture recognition by **35%** using **multithreading** in **OpenCV**, reducing processing time and improving real-time performance. Integrated **pynput** to simulate keyboard input, eliminating the need for a physical keyboard.

Technical Skills & Certifications

Programming & Software Development: Python, SQL, PL/SQL, Application Development, Software Engineering, Debugging, Git, Version Control, Unit Testing, Tkinter, PySide6/Qt, Hadoop, Hue, Impala Databases & Data Engineering: Database Management Systems (DBMS), SQL Server Management Studio (SSMS), Data Validation, Data Modeling, Query Optimization, ETL AI, Machine Learning & Automation: Generative AI, Large Language Models (LLMs), Prompt Engineering, Agentic Workflows, Process Automation Data Analytics & Business Intelligence: Advanced Excel, Power BI, Exploratory Data Analysis (EDA), KPI Reporting, Financial Analytics, Risk Analytics	ALL Certifications: edX, DavidsonX, Academor, DYPCII AWS Academy: Cloud Foundations, Cloud Architecting Cisco: CCNA –Introduction to Networks,Switching,Routing Alteryx: Designer Core, Foundation Micro-Credential GATE 2025: Qualified – AIR 9860 (Top 6%) NPTEL: Business Analytics & Text Mining with Python Unity Certified Associate: Game Developer Oracle Cloud Infrastructure: Generative AI Professional Oracle Cloud Infrastructure: Data Science Professional Soft Skills: Problem Solving, Root Cause Analysis, Communication, Collaboration, Teamwork, Proactive Learning, Technical Design, Design Specifications
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Research & Publications

SmartCom Conference <i>Paper Presenter & Co-Author</i> • Presented a review on food delivery sentiment using 15+ AI tools; paper accepted by Springer. • Published Springer paper: Analysis of Customer Reviews on Food Delivery Platforms Using Deep Learning.	Jan 2025 Navi Mumbai, India
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Extracurricular & Leadership

Smart India Hackathon (SIH): Co-created a Heritage & Culture app using Unity, cataloging local traditions in collaboration with cultural experts.	STEM Workshop Facilitator: Conducted workshops for 100+ students at Dr. S. V. Samant Vidyalaya, with 92% engagement on the GROK portal.
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