JAYENDRA RATHOD

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Summary

Computer Science student with 2+ years of coding experience specializing in Python, MySQL, and computer vision. Delivered 5+ machine learning projects and Redesigned AI applications serving 100+ users. Strong foundation in DSA with 300+ LeetCode solutions and experience in collaborative development across 10+ GitHub repositories. Active competitive programmer with 150+ solved challenges across multiple coding platforms.

Education

VIT Bhopal University — **May 2026**
Bachelor of Technology in Computer Science Engineering, CGPA: 7.45 — *Sehore, MP*

Shri Samarth Junior College of Science — **June 2022**
Higher Secondary Certificate (HSC), Percentage: 84% — *Akola*

School of Scholars — **June 2020**
Secondary School Certificate (SSC), Percentage: 75% — *Akola*

Experience

TPP Consultation — **Dec 2024 – Feb 2025**
Data Analyst Intern — *Remote*

- Processed and analyzed 50,000+ rows of business data using Excel, MySQL, and Python, generating 15+ comprehensive reports
- Identified 8 key business patterns through statistical analysis, resulting in 3 strategic recommendations adopted by management
- Collaborated with 5+ senior analysts to deliver insights for 12+ client projects across different industry verticals
- Initiated 4 automated data processing pipelines using Python scripts, reducing manual reporting time by 30 hours per week
- Created 6 interactive Power BI dashboards with real-time data visualization, serving 25+ stakeholders daily

Projects

Reinforcement Learning Stock Trading Agent | *Python, TensorFlow, Stable-Baselines3, MySQL* — **Oct 2024**

- Composed AI trading agent using Deep Q-Network (DQN) that processes 10,000+ historical stock data points for training
- Designed custom trading environment with OpenAI Gym, integrating MySQL database containing 2+ years of market data
- Implemented reward-based learning system with 95% accuracy in buy/sell signal generation across 500+ test scenarios
- Utilized NumPy and Matplotlib to Achieve 15% improvement in trading accuracy and 12% higher returns compared to buy-and-hold strategies over 6-month testing period

Virtual Keyboard with Hand Tracking | *Python, OpenCV, MediaPipe, Tkinter* — **Nov 2024**

- Completed computer vision-based virtual keyboard supporting 26 alphabets and 10 numbers with 95% keystroke accuracy
- Designed Tkinter interface supporting 500+ words per minute typing speed with real-time visual feedback system
- Integrated MediaPipe framework detecting 21 hand landmarks with 95% accuracy across 1000+ test gestures

Technical Skills

Programming Languages: C++, Python, Java
Technologies & Frameworks: OpenCV, MediaPipe, TensorFlow, Stable-Baselines3, Flask, Tkinter
Programming Languages & Databases Tools: C++, Python, Java MySQL, AWS, Git, GitHub
Core Competencies: Data Structures & Algorithms, Machine Learning, Computer Vision, Data Analytics, DBMS, OOP

Certifications

- SQL on Oracle Cloud (Oracle University)
- Problem Solver DSA (FacePrep)
- Computer Vision (Vityarthi)
- Python Essentials (Vityarthi)
- AWS Cloud Practitioner (In Progress)
- Data Analytics Fundamentals (Coursera)

Extracurricular Activities

SMM Team Core Member, AI Club VIT Bhopal - Social media management and AI project coordination

EM Team Core Member, Linux Club - Event management and technical workshop organization

Volleyball Player, Svabhimani Club Akola - Team sports and leadership development