

RAGHAV JOSHI

Aspiring AI/ML Engineer

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Portfolio: <https://portfolio-bfu1.vercel.app/>

RJ

SUMMARY

I am a motivated and detail-oriented aspiring AI/ML Engineer with a strong academic foundation in Computer Science. My expertise lies in data analysis and machine learning techniques, with hands-on experience using frameworks like TensorFlow and PyTorch. I am passionate about turning data into actionable insights and eager to contribute to impactful AI-driven solutions in collaborative environments.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

JIMS Engineering Management Technical Campus, Delhi NCR | Affiliated to GURU GOBIND SINGH UNIVERSITY (IPU)

⌚ 2022-2026 📍 Delhi NCR

Current CGPA: 8.188/10.0

Schooling

Kendriya Vidyalaya, Vigyan Vihar (CBSE)

⌚ 2010-2022 📍 Delhi

10th Grade: 70% | 12th Grade: 75%

STRENGTHS

💻 Technical Thinking

- Strong analytical and logical reasoning
- Quick learner of new technologies and frameworks
- Data-driven mindset with attention to detail
- Ability to break down complex problems into modular solutions

📝 Work Ethic / Mindset

- Self-motivated and continuously learning through online platforms
- Strong perseverance and adaptability in new tech domains
- Curiosity and passion for artificial intelligence and its real-world applications
- Goal-oriented and deadline-driven

🤝 Collaboration / Communication

- Effective team collaborator during academic and project work
- Clear communicator of technical concepts to non-technical peers
- Initiative-taker in group projects and events

KEY ACHIEVEMENTS

- Completed multiple certified courses in Data Analytics and Machine Learning from platforms like Google AI and TCS iON.
- Building and sharing Python-based ML projects on GitHub, including facial recognition and data clustering demos.
- Recognized as a Microsoft Learn Student Ambassador for technical leadership and peer learning initiatives.
- Participated in real-world job simulation programs on Forage, gaining hands-on experience in data wrangling and business insights.
- Consistently pursuing advanced topics such as Q-Learning, Reinforcement Learning, and NumPy optimization.

LANGUAGES

English
Native



Hindi
Native



SKILLS

Python	C/C++	Deep Learning	Git	GitHub	Jupyter	Jupyter Notebook	K Means	Numpy
OpenCV	Pandas	SQL	PyTorch	Scikit-Learn	Sentiment Analysis	EDA	TensorFlow	

TRAINING / COURSES

- **Coursework & Challenges – Data Analytics Virtual Job Simulations – Forage**
 - Completed real-world job simulation programs by top companies on Forage.
 - Gained practical exposure to data wrangling, dashboard creation, and business insights using Excel and SQL.
- **TCS iON Career Edge – Young Professional Certificate**
 - Completed a certified program covering soft skills, communication, interview techniques, and digital awareness.
 - Developed job readiness for modern corporate environments.
- **Google AI – Learning Program**
 - Participated in introductory AI courses and hands-on modules provided by Google.
 - Learned about AI applications, responsible AI, and the basics of machine learning pipelines.
- **TCS iON Career Edge – Young Professional Certificate**
 - Completed a certified program covering soft skills, communication, interview techniques, and digital awareness.
 - Developed job readiness for modern corporate environments.
- **Hackathon Participant** – Codetreck by HASHTAG Society of JEMTEC on Jan 17, 2025.
- **Microsoft Learn Student Ambassador**
 - Represented Microsoft in the student community by hosting peer-learning sessions and promoting tools such as Azure and GitHub.
 - Earned certification for active contribution and leadership in Python and AI education.

PROJECTS

EV Adoption Forecaster – A Deployed Time-Series Forecasting Application

An end-to-end machine learning project to predict equipment failures, developed and deployed on the IBM Cloud platform.

- Developed and deployed an end-to-end machine learning application to forecast future EV adoption trends using historical data from Washington State.
- Built an interactive web dashboard with Streamlit, allowing users to visualize 3-year forecasts for any county and compare growth trends across multiple regions.
- Engineered time-series features (lags, rolling means) and trained a Gradient Boosting Regressor model to achieve reliable predictions for infrastructure planning.
- **Tech Stack:** Python, Streamlit, Scikit-learn, Pandas, Matplotlib.
Links: [Live Application](#) | [GitHub Repository](#)

Predictive Maintenance for Industrial Machinery

An end-to-end machine learning project to predict equipment failures, developed and deployed on the IBM Cloud platform.

- Utilized IBM Watsonx.ai and its AutoAI feature to automatically build, train, and optimize multiple models, selecting a Gradient Boosting Classifier with **99.6% accuracy**.
- Identified key failure predictors, including Torque, Rotational Speed, and Tool Wear, providing actionable insights for maintenance schedules.
- Successfully deployed the final model as a live web service, creating a practical and scalable tool for real-world industrial applications.
- Tech Stack:** Python, IBM Watsonx.ai, AutoAI, Scikit-learn, Pandas.

[GitHub Hyperlink](#)

Real-Time Face and Behaviour Analysis System

An under-development project focused on analysing face and behaviour in real-time

- Captures real-time video feed to detect and track human faces and analyses behavioural patterns using AI models
- Integrates facial expression recognition and pose estimation techniques to derive user sentiment and activity insights
- Applicable in sectors like retail for customer sentiment analysis, HR for workplace wellness monitoring, and surveillance systems
- Tech Stack: Python, OpenCV, TensorFlow (in progress)

INTERESTS

AI/Tech-Oriented

- Building AI-powered mini projects (face detection, chatbots, etc.)
- Participating in data science hackathons and coding challenges
- Exploring ethical AI and responsible machine learning
- Contributing to open-source AI tools and GitHub repos

Creative/Analytical

- Visualizing data with dashboards and storytelling
- Reading about AI applications in healthcare, space, and finance
- Following AI/ML research papers and trends
- Problem-solving games like Sudoku, chess, or Rubik's cube

Personal Growth/Teamwork

- Hosting or attending tech meetups and webinars
- Public speaking or presenting technical ideas
- Blogging or creating content around AI and tech

Other Humanizing Interests

- Photography & image editing (especially relevant for computer vision!)
- Running, fitness, or mindfulness (shows discipline/focus)
- Travel and cultural exploration (curiosity and adaptability)