

# ADARSH KUMAR

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## Profile Summary

Python Developer & AI/ML Engineer with expertise in backend development, automation, and intelligent systems. Skilled at designing scalable platforms, deploying ML models, and building automation pipelines that improve efficiency by up to 30% . Experienced in full-stack systems, cloud deployment, and API integration. Recognized for hackathon wins, technical mentoring, and delivering production-ready solutions.

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## Career Highlights

- Python & Backend → Designed RESTful APIs, optimized databases (30% Faster queries), implemented JWT Auth & RBAC, and deployed enterprise Apps with 99.8 % up time.
  - Automation → Built AI-driven automation tools (email responder, n8n Pipelines), saving 15+ hours/week and reducing overhead by 20% .
  - Machine Learning → Delivered ML solutions including LLM chatbots, Multimodal summarizers, predictive analytics, achieving 85– 92% Accuracy in production.
  - Leadership & Training → Conducted 20+ workshops (AI/ML & automation), mentoring 500 + learners; coordinated IBM ICE DAY with 3,000 + Participants.
  - Hackathons & Innovation → Winner of IBM Cod e-Crunch Hackathon
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## Experience

### Full-Stack & AI/ML Developer (Intern) – Mindware Technologies

*Jan 2025 – Aug 2025*

- Built enterprise web platforms (IndianBarcoe.com , TagsIndia.com , POS Software) with React, Node.js, PostgreSQL, boosting engagement by 35% .
- Architected backend APIs in Python/Node.js, reducing API response time by 20%.
- Integrated automation (email responder, task scheduler), saving 15hrs/week in manual tasks.
- Implemented automation testing (Cypress & Selenium) → achieved 95% coverage.
- Optimized high-traffic database queries, reducing latency by 30%.

### Machine Learning Developer- V.Developers Pvt. Ltd., Mathura

*Sep 2023 – Dec 2024*

- Built LLM chatbots & OpenCV image recognition systems with 92% accuracy.
- Fine-tuned transformer models (BERT, Vision Transformer), improving performance by 15%.

- Delivered 20+ Generative AI workshops, training 300+ professionals & students.

## **Freelance Python & AI Developer – Remote**

*Jan 2022 – Dec 2024*

- Completed 100+ client projects, including recommendation systems, AI summarizers, automation tools.
- Developed scalable platforms with Flask, React, Node ensuring 99.9% uptime.
- Automated workflows using n8n & Python scripting, reducing costs by 18%.

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## **Projects**

### **AI Multimodal Summarizer**

- Built a summarizer integrating text + images using transformers and vision models, achieving 85% accuracy in summary generation.
- Deployed inference pipelines with FastAPI & AWS, reducing processing time by 30% and serving 5,000+ daily requests.
- Optimized models (BERT + Vision Transformer) on custom datasets for domain-specific performance gains.

**Tech Stack:** Python, PyTorch, Hugging Face, OpenCV, FastAPI, AWS

### **Intelligent Chatbot with LLM Integration**

- Developed a domain-specific conversational AI using LLMs (GPT, LLaMA) fine-tuned on custom datasets.
- Integrated chatbot with voice assistant capabilities, enabling multimodal interaction.
- Deployed via FastAPI & Docker, accessible to 10,000+ users with scalable backend.

**Tech Stack:** Python, PyTorch, Hugging Face Transformers, FastAPI, Docker, AWS

### **Predictive Analytics for Retail (POS System)**

- Designed a sales forecasting engine using LSTM networks, improving inventory planning by 22%.
- Integrated predictive analytics into a POS system with secure transactions & role-based access control.
- Automated test coverage to 98%, reducing bug reports by 15%.

**Tech Stack:** Python, TensorFlow/Keras, PostgreSQL, Flask/FastAPI, Selenium

### **Real-Time Face Recognition System**

- Built a face detection & recognition pipeline using CNN-based feature extraction with >90% accuracy.
- Implemented real-time video processing with OpenCV for authentication and surveillance use cases.
- Optimized inference for edge devices, reducing latency by 35%.

**Tech Stack:** Python, OpenCV, dlib, TensorFlow/Keras, Scikit-learn

### **AI-Powered Sentiment Analysis**

- Engineered a sentiment classification system to analyze customer reviews and social media data.
- Achieved 92% accuracy by combining traditional NLP (TF-IDF) with deep learning (BiLSTM).
- Delivered insights through a dashboard for business decision-making.

**Tech Stack:** Python, NLTK, spaCy, Scikit-learn, TensorFlow/Keras, Streamlit

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## Education

**Bachelor of Technology in Computer Science (AI & ML)** GLA University, Mathura | 2021 – 2025

- Relevant Coursework: Machine Learning, Deep Learning, NLP, Cloud Computing
  - Capstone Project: Developed a multimodal AI summarizer integrating text and image data, achieving 85% accuracy.
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## Skills

**Languages** → Python, JavaScript, TypeScript, Java, SQL

**Backend & APIs** → Flask, FastAPI, Express.js, Node.js, REST APIs, JWT Auth

**AI/ML** → TensorFlow, PyTorch, Hugging Face, Scikit-learn, OpenCV, NLP, Generative AI

**Databases** → PostgreSQL, MySQL, MongoDB

**DevOps & Tools** → Docker, Git/GitHub, DigitalOcean, AWS, Cypress, Selenium

**Other** → Automation (n8n), CI/CD (GitHub Actions)

## Professional Strengths

**Leadership & Mentoring** → Led 20+ workshops, mentored 500+ learners, and coordinated large-scale events (3,000+ participants).

**Communication** → Strong written & verbal communication through corporate training, technical talks, and collaborative projects.

**Team Management** → Experience in guiding teams during hackathons, internships, and project development; ensured delivery of 10+ production-ready prototypes.

**Problem-Solving** → Proven ability to apply analytical thinking and creativity to design AI/ML solutions reducing operational costs by 20%.

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## Certifications

- IBM Certified – AI/ML Essentials
- Google Cloud ML Engineer Training
- TensorFlow Developer Certificate.