

HITESH KUMAR

Education

Mohali, Punjab	Chandigarh University	09/2022 – 07/2026
<ul style="list-style-type: none">Major: Bachelor of Engineering in CSE (Artificial Intelligence and Machine Learning) (CGPA: 7.98)Programming Coursework: Algorithms & Data Structures, Operating Systems, Database Management Systems, NetworkingAIML Coursework: Machine Learning, Deep Learning, Natural Language Processing (NLP), Statistical Analysis, Data Mining, Database Management Systems (SQL, NoSQL), Big Data Analytics, Cloud Computing, Computer Vision, Image Processing, Reinforcement Learning, AI Optimization, Information Retrieval, Time Series Analysis		

Employment

African Association of Entrepreneurs — Web Developer

- Remote | Oct 2024 – Jan 2025
- Developed and maintained the French version of the organization’s website, increasing accessibility for 15,000+ French-speaking users.
 - Translated and localized 50+ blog articles and reports from English to French, improving user engagement by 20%.
 - Managed content updates and streamlined publishing workflows using WordPress CMS, reducing update time by 30%.
- Skills: WordPress, CMS, Localization, Web Development*

Edunet Foundation (AICTE & SHELL) — AI/ML Intern

- Remote | Nov 2024 – Dec 2024
- Built a waste classification model using CNN and YOLO, achieving 92% accuracy on test data.
 - Deployed a real-time detection demo with Streamlit; project ranked top 40 out of 5000+ submissions by industry experts.
 - Enhanced model inference speed by 25%, enabling efficient real-time usage.
- Skills: Python, CNN, YOLO, Streamlit, Machine Learning*

Think Blue Data — AI Research Volunteer

- Remote | Sep 2024 – Oct 2024
- Annotated and curated 10,000+ data samples for urban planning and building topology AI models.
 - Collaborated with a team to develop AI-driven infrastructure planning solutions, supporting sustainable urban development in Thailand.
- Skills: Label Studio, Data Annotation, AI, Machine Learning*

Software Projects

Multi-RAG-Agent Tools (JGEC Winter of Code)

- Engineered a Multi-Agent AI system automating text summarization, article generation, and data sanitization, improving workflow efficiency by 40%.
- Designed a modular architecture with 5+ specialized agents, achieving 95% automation accuracy.
- Optimized large dataset extraction and cleaning, reducing manual effort by 60%.
- Tech Stack: Python, Streamlit, FAISS, Hugging Face, Gemini API, GitHub, NextJS, Flask
- [GitHub](#) | [Live Demo](#)

LinkedIn Automate Comment (JGEC Winter of Code & DWOC)

- Built an AI-driven automation system for LinkedIn comments, boosting engagement efficiency by 50%.
- Processed 1,000+ posts daily using web scraping, sentiment analysis, and LLM-based text generation.
- Generated relevant comments with 90% accuracy, automating posting to streamline networking.
- Tech Stack: Python, Selenium, Gemini API, FastAPI, Streamlit, Vercel, GitHub, Playwright
- [GitHub](#) | [Live Demo](#)

Guard AI – Remote Proctoring System (JWOC, DWOC, SWOC)

- Developed an AI-powered proctoring system with real-time facial recognition, gaze tracking, and lip movement detection to enhance exam integrity.
- Monitored screen activity and unauthorized device usage, onboarding 15-20 users and collaborating with 30-40 contributors.
- Tech Stack: Python, FastAPI, OpenCV, ML, Streamlit, Vercel, NextJS
- [GitHub](#) | [Live Demo](#)

Skills

Technical Skills:

- **Programming Languages:** Python, SQL, R, C++
- **Machine Learning & AI:** Supervised & Unsupervised Learning, Deep Learning, Reinforcement Learning, NLP, Computer Vision, Time Series Forecasting, Recommendation Systems, Anomaly Detection
- **Libraries & Frameworks:** Scikit-learn, TensorFlow, PyTorch, Keras, Hugging Face Transformers, OpenCV, Pandas, NumPy, Dask, XGBoost, LightGBM
- **Big Data & Cloud:** Apache Spark, Hadoop, Google BigQuery, AWS (S3, SageMaker), Azure (Data Factory, ML Studio), Databricks
- **Databases:** MySQL, PostgreSQL, MongoDB, SQLite, NoSQL, Snowflake
- **MLOps & Deployment:** Model Training & Tuning, Pipeline Automation, Flask, FastAPI, TensorFlow Serving, Docker, Kubernetes, MLflow, CI/CD (GitHub Actions, Jenkins)
- **Visualization & BI:** Tableau, Power BI, Streamlit, Dash
- **Tools & IDEs:** Jupyter Notebook, VS Code, PyCharm, Git, GitHub, GitLab

Interpersonal Skills:

- Analytical Problem Solving
- Team Collaboration & Communication
- Agile Workflow Coordination
- Client-Centric Approach

Certifications

Salesforce Certified AI Specialist Salesforce	Data Analyst Associate DataCamp
Salesforce Certified AI Associate Salesforce	Multicloud Network Associate Aviatrix
AI-900: Microsoft Azure AI Fundamentals Microsoft	Generative AI Fundamentals Accreditation Databricks
GitHub Foundations GitHub	Oracle Cloud Infrastructure 2024 Generative AI Certified Professional Oracle
Postman API Fundamentals Student Expert Postman	Oracle Cloud Data Management Foundation Associate Oracle
Predictive Analytics Using IBM SPSS Modeler IBM	
Advanced Credit Program - AI Models Chandigarh University	

Volunteering

United Nations Development Programme (UNDP Kenya)

Volunteer – Science and Technology | Nov 2024 – Dec 2024 (2 months)

- Promoted global awareness of UNDP’s AI initiatives in collaboration with key partners including MoICT Kenya, Microsoft, and KSG Kenya
- Contributed to the successful launch of the Africa Centre of Competence for Digital & AI Skilling, empowering public servants with essential skills to accelerate SDG progress, inclusive governance, and innovation across Africa

African Association of Entrepreneurs (AAE)

Volunteer | Feb 2024 – Aug 2024 (7 months)

- Publication Lead (Feb – May 2024): Led a team of 12 writers in creating reports on Africa’s entrepreneurship landscape for the annual AAE publication
- Awareness Lead (Jun – Aug 2024): Coordinated campaigns with 20+ international volunteers to promote SME empowerment across Africa
- Awareness Volunteer (Jul – Aug 2024): Supported outreach initiatives and stakeholder engagement to amplify the impact of AAE programs

Ministry of Social Development and Human Security of Thailand (MSDHS)

Accelerator | Nov 2023 (1 month)

- Promoted volunteerism in support of the UN Sustainable Development Goals (SDGs) during International Volunteer Day celebrations
- Contributed to the promotion and official inauguration of the ministry’s website

Research Work

Train Waitlisted Ticket Confirmation Prediction Using Machine Learning

Published in ICACCTech 2024 | Nov 17, 2024

- Developed a machine learning model to predict the confirmation probability of waitlisted train tickets.
- Analyzed historical Indian Railways data to support better travel planning decisions.

Weather-Integrated Traffic Routing with Dynamic Speed Prediction

Accepted at ICRAAI 2025 | Feb 21–22, 2025

- Integrated real-time weather data into traffic routing algorithms for smart city applications.
- Designed AI models for speed prediction and path optimization under varying environmental conditions.