

Hrichik Khandait

Portfolio: <https://hrichikportfolio.vercel.app/>
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EDUCATION

- Indian Institute of Technology, Madras** Chennai, India
Bachelor of Science - Data Science and Application; CGPA: 8.9 March 2024 - Present
- Institute of Engineering and Management, Kolkata** Kolkata, India
Bachelor of Technology - Computer Science and Engineering (A.I); CGPA: 8.7 June 2024 - Present

SKILLS SUMMARY

- Languages:** Java, Python, C, SQL, MATLAB
- Web Technologies:** HTML5, CSS3, Flutter
- Backend & API Frameworks:** FastAPI, REST API Architecture, Django REST Framework
- Database:** PostgreSQL, MySQL, Google Sheets API
- Tools/Platforms:** Git, GitHub, Linux, Arduino, Postman, Jira, Docker, Canva
- Concepts:** OOPS, Data Structures & Algorithms, DBMS
- Data & Productivity Tools:** MS Excel, Google Sheets

EXPERIENCE

- Junior Developer** Remote
Quantinfinium Holdings OU, Northern Europe July 2026 – Present
 - Developing and maintaining AI-powered applications and backend services for finance automation workflows
 - Enhancing and deploying domain-specific LLM solutions, integrating new features and optimizing system performance
- LLM Engineering Intern** Remote
Quantinfinium Holdings OU, Northern Europe January 2026 – June 2026
 - Developed and optimized task-specific AI chatbots for finance automation workflows using Large Language Models (LLMs)
 - Fine-tuned, tested, and improved LLM performance to enhance response accuracy, contextual understanding, and user-specific task handling
 - Performed model evaluation, workflow refinement, and iterative optimization for reliable domain-specific AI solutions
- AI Trainer** Remote
Outlier, Freelance June 2026 – Present
 - Trained AI models across multiple natural and programming languages to improve understanding, accuracy, and task performance
 - Evaluated AI-generated responses and conducted quality assessments to ensure correctness, consistency, and alignment with project requirements

PROJECTS

- AgroSync: AI-Powered Smart Farming System (AI/ML, IoT, Computer Vision):** Developed an intelligent agriculture platform integrating IoT-based environmental monitoring, AI-driven crop disease detection, and predictive analytics for smart irrigation, yield forecasting, and sustainable farming. Designed a Controlled Environment Agriculture (CEA) framework utilizing real-time sensor networks and automated decision support to optimize crop growth conditions and resource utilization.
Tech: Python, Machine Learning, CNN, LSTM, Computer Vision, IoT Sensors, Edge Computing, Data Analytics
- FinMentor: AI Finance Coach & Learning Ecosystem (Generative AI, FinTech):** Developed an AI-powered financial education platform combining personalized tutoring, market simulations, adaptive learning, and conversational AI to improve financial literacy. Designed intelligent recommendation and assessment systems to deliver customized learning journeys across investing, trading, budgeting, and wealth management topics.
Tech: Python, LLMs, RAG, NLP, FastAPI, React, PostgreSQL, AI Agents
- Multi-Asset Backtesting Engine (Trading Systems, Quant Finance):** Backtested SPY and six equities using SMA & MACD strategies. Implemented trade logic, tracked PnL, and computed Sharpe ratio, drawdown, and equity curves.
Tech: Python, Pandas, NumPy, yfinance, Matplotlib, TA-Lib
- Line Following & Obstacle Avoidance Robot Car (Embedded Systems, Robotics):** Built an autonomous robot integrating line-following logic and obstacle avoidance using IR sensors and ultrasonic modules.
Tech: Arduino (C++), IR Sensors, Ultrasonic Sensor, L298N Motor Driver, DC Motors

ACHIEVEMENTS

- **1st Prize Winner - Hack Ur Way:** Won 1st place at Hack Ur Way, organized under Envisage by Techno Main Salt Lake.
- **Runner-Up - Build X:** Secured Runner-Up position at Build X, organized by Techno Main Salt Lake in collaboration with the Institution of Engineering and Technology (IET).
- **Runner-Up (Final Round) - Industry Connect Young Innovators Meet 2026:** Achieved Runner-Up position in the final round of Industry Connect Young Innovators Meet 2026, organized by IET Kolkata Local Network in collaboration with Damodar Valley Corporation (DVC).
- **Finalist - Hacksagon 2026:** Selected as a finalist at Hacksagon 2026, a National-Level Hardware & Software Hackathon.

CERTIFICATIONS

- **Introduction to Internet of Things:** NPTEL, Oct 29, 2025
- **Blockchain and its Applications:** NPTEL, Apr 10, 2026
- **Soft Skills:** NPTEL, Mar 22, 2026
- **GenAI Powered Data Analytics Job Simulation:** TATA, June 2, 2026
- **Agile with Atlassian Jira:** Atlassian University, Sep 21, 2025
- **Crash Course on Python:** Google, Aug 29, 2025
- **Agile Leadership Professional Certificate:** University of Colorado, Nov 24, 2025
- **MATLAB Onramp:** MathWorks, Sep 18, 2024