

Amar Pandey

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PROFESSIONAL SUMMARY

Data-driven Computer Science undergraduate specializing in machine learning, AI systems, and intelligent data applications. Experienced in building predictive analytics solutions, RAG pipelines, and scalable full-stack platforms through freelance work and independent projects. Skilled in transforming complex datasets into actionable business insights using Python and modern AI technologies, with strong problem-solving abilities in collaborative, high-pressure environments.

TECHNICAL SKILLS

- **Languages:** Python, SQL, JavaScript, TypeScript, Java, HTML/CSS
- **AI & Data:** Machine Learning, NLP, RAG Pipelines, Predictive Analytics, Data Visualization
- **Frameworks:** React.js, TensorFlow, Scikit-learn, Pandas, Matplotlib
- **Tools:** Power BI, Tableau, Git, GitHub, Docker, AWS (Basic), Jupyter

SOFT SKILLS

- Analytical Skills, Presentation Skills, Critical Thinking, Communication, Teamwork
- Organization Skills, Data Interpretation, Business Insight

PROJECTS

• Launchsim – Multi-Agent Market Simulation Engine AI Systems

Built a swarm intelligence simulation engine for predicting market reactions before product launches using collaborative multi-agent workflows. Designed scalable AI-agent architectures for behavioral simulation, predictive analysis, and decision modeling with local on-device execution.

Tech Stack: Python, AI Agents, Swarm Intelligence, Simulation Systems, Predictive Analytics

• ThirdEYE – Enterprise Knowledge Intelligence Assistant AI Systems

Built an AI-powered organizational memory and enterprise knowledge intelligence system for semantic decision tracking, contextual retrieval, and organizational knowledge analysis. Developed scalable Retrieval-Augmented Generation (RAG) pipelines, semantic search workflows, and natural-language querying systems using ChromaDB and AI-driven contextual retrieval.

Tech Stack: Python, ChromaDB, RAG, LLMs, NLP, AI Agents, Knowledge Graphs, LangChain, Vector Search

• Smart HVAC Predictive Model Machine Learning

Built a machine learning system for HVAC energy optimization using real-time environmental and sensor data. Developed predictive models for energy consumption forecasting and operational efficiency, achieving 83% prediction accuracy during SUNHACK_2024.

Tech Stack: Python, TensorFlow, Scikit-learn, Pandas, IoT Sensors, Data Visualization

• MetaForensic – Metadata Intelligence System Security + Forensics

Developed a forensic metadata analysis system for tampering detection, metadata extraction, and digital evidence inspection. Implemented automated anomaly detection workflows for secure forensic analysis and investigation support.

Tech Stack: Python, Metadata Extraction, Security Analysis, File Forensics, Automation

EDUCATION

Bachelor of Technology(B.Tech), Computer Science and Engineering

SandipUniversity • Nashik • Aug 2022 - Aug 2026

CGPA: 8.3 / 10 (Current)

•**Relevant Coursework** : SoftwareEngineering, Data Structures and Algorithms, Internet & Web Programming, Computer Graphics, Database System Management, My SQL, Java, Python Programming, Object Oriented Programming in Java

Intermediate Diploma(Physics , Chemistry, Maths)

Ayodhya Academy • Ayodhya • Jan 2020 - Dec 2022

High School Diploma

AyodhyaAcademy • Ayodhya • Jan2018 - Dec2020

AWARDS & HONORS

SUNHACK_2k24 International Hackathon - Finalist

- Competed in AI &MLtrack among internationalteams in 48-hour intensive competition
- Demonstrated problem-solving skills under pressure while building real-world solutions
- Showcased collaborative leadership in cross-functional team environment.
- Exhibited commitment to tech community through active participation in competitive programming

SUNHACK_2026 International Hackathon - Top10

- Built an AI-powered Enterprise Knowledge Assistant for organizational memory and contextual decision tracking.
 - Developed semantic retrieval workflows extracting decisions, rationale, and stakeholder insights from unstructured data.
 - Designed searchable knowledge graphs and natural-language querying systems using AI-driven retrieval pipelines.
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LANGUAGES

- **English** : Fluent Professional
 - **Hindi** : Native speaker
 - **Japanese** : Basic
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portfolio website : amarp.vercel.app/

LinkedIn : linkedin.com/in/amarpandey01/
