

SOURAV PATI

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OBJECTIVE

Enthusiastic B.Tech Computer Science student and Full-Stack Web Development & AI/ML enthusiast with strong skills in Python, JavaScript, FastAPI, React, and SQL/NoSQL databases. Passionate about building scalable web applications and integrating AI/ML solutions such as LLMs, RAG pipelines, and intelligent agents into production systems. Seeking an opportunity to contribute innovative, data-driven solutions while continuously learning and growing in the fields of software development and artificial intelligence.

EDUCATION

University of Engineering and Management	2022–2026
B.Tech in Computer Science and Engineering (Specialization: AI/ML(GPA : 7.03/10))	
Baita MahendraNath High School, XII (WBCHSE)	2021–2022
PERCENTAGE : 91.8%	
Baita MahendraNath High School, X (WBBSE)	2019–2020
PERCENTAGE : 82.71%	

SKILLS

Programming Languages:	Python.
Web Development:	HTML, CSS, React.js, FastAPI.
Databases:	MongoDB.
Version Control :	Git, GitHub, VS Code.
Computer Fundamentals:	DBMS, Operating Systems,.

PROJECTS

- **AI Chatbot with RAG Pipeline — FastAPI, LangChain, Pinecone, Hugging Face**
Developed a domain-specific chatbot using a Retrieval-Augmented Generation (RAG) pipeline. Integrated vector search (Pinecone/FAISS) for context-aware responses and deployed APIs with FastAPI.
- **Posture Detection Web App — Python, OpenCV, Mediapipe**
Real-time posture detection using Mediapipe pose estimation. Implemented alerts and visual feedback for posture correction. Designed alert mechanisms for incorrect posture to encourage ergonomic correction.
- **Helpdesk Dashboard — React.js, Node.js, MongoDB**
Created a responsive ticket management dashboard with user authentication, tracking, and analytics. Implemented secure CRUD APIs and real-time performance monitoring for ticket resolution.

EXTRA-CURRICULAR ACTIVITIES

- Attended AI/ML workshops, cloud computing sessions, and startup bootcamps.
- Contributed to open-source projects on GitHub.
- Building personal projects beyond academics.

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate, Oracle.
- Machine Learning With Python: Foundations, LinkedIn Learning.
- Principles of Generative AI Certification, Infosys.