

Akash Swain

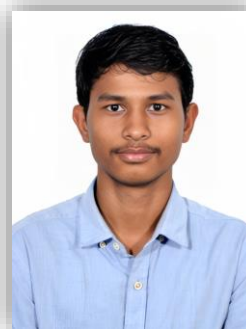
AI/ML Engineer | Full Stack Developer

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Professional Summary

Results-driven AI/ML Engineer and Full Stack Developer with 5+ years of experience. Currently working at Tata Technologies (deputed at Tata Motors), delivering high-impact solutions using LangChain, Agentic AI, LangGraph, NLP, and Generative AI. Skilled in end-to-end project delivery, automation systems, intelligent dashboards, and real-time data processing.

Technical Skills

- Languages: Python, PHP, Laravel, Django, JavaScript, C
- AI/ML: Generative AI, LangChain, LangGraph, NLP, Machine Learning, Deep Learning, Computer Vision
- Databases: PostgreSQL, MySQL
- Tools & Frameworks: FastAPI, Flask, React.js, Streamlit
- Dashboards: Power BI, Metabase
- Web Tech: HTML5, CSS3, JavaScript, jQuery, Bootstrap

Professional Experience

Tata Technologies (Client: Tata Motors)

Solutions Developer | April 2022 – Present | Pune, India

- Leading development of AI/ML systems, dashboards, and data intelligence tools.
- Architecting advanced solutions using LLMs and LangChain for internal business units.
- Developing NLP and Agentic AI systems for real-time query resolution.

Key Projects:

- AutoQuery AI – Intelligent Issue Query Assistant:
 - Built using LangChain, LangGraph, and Agentic AI.
 - Connects to multiple project databases; answers user queries in natural language.
 - Automatically generates graphs, Excel downloads, and processes mail requests.
- KATS – LangChain-based Duplicate Issue Detector:
 - Uses vector similarity and embeddings to find duplicates in issue tracking systems.
- Handwritten Image to Text System:

- Converts handwritten documents into editable text using deep learning and OCR.
- Launch Quality Operating System (LQOS) & Audit Management:
 - Tracks audit compliance, non-conformities, and project deliverables.
- Power BI + Metabase Dashboards:
 - Real-time analytics dashboards integrated with PostgreSQL.

Silicon Techlab Pvt. Ltd.

Full Stack Developer | Feb 2020 – March 2022 | Bhubaneswar, India

- Developed modules for student fee and academic systems.
- Worked with Laravel and Python-based projects with payment gateway integration.

Projects:

- Medicaps: Student fee module and payment gateway integration.
- Awes: Student timetable, academic reports, and fee management.

Education

- B.Tech in Computer Science Engineering – 2020
Centurion University of Technology and Management (CUTM), Bhubaneswar – 8.17 CGPA
- 12th – CHSE Odisha – 2016, S.L.A. College, Godipada – 57.33%
- 10th – BSE Odisha – 2014, N.H.S, Bhaliadihi – 45.16%

Academic Projects

- Chatbot for EOD System (NLP): Auto mail fallback and dynamic admin-managed Q&A.
- Automatic Attendance System (Face Recognition): ML + Computer Vision for auto attendance.
- Handwritten Digit Recognition: ML and image processing to predict digits in images.

Personal Details

DOB: 05/06/1999

Languages Known: English, Hindi, Odia

Hobbies: Solving coding challenges, watching WWE

Personal Statement

Creative thinker with an optimistic outlook. Enjoy working in collaborative, multi-disciplinary teams and solving real-world challenges with AI and automation.