Dipesh Patro — AI/ML Engineer | Machine Learning Engineer (Entry-Level)

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PROFESSIONAL SUMMARY

Motivated and results-oriented **AI/ML Engineer** and Computer Science (Data Science) undergraduate with practical experience designing and deploying ML and Generative AI solutions. Strong command of **Python, TensorFlow, NLP, LangChain, and Streamlit**. Experienced in data preprocessing, model training, evaluation, REST API integration, and visualization using Power BI and Excel. Proven ability to deliver production-ready applications, collaborate cross-functionally, and adapt quickly to new technologies.

CORE SKILLS

Programming & Tools: Python, SQL, JavaScript, HTML, CSS

AI/ML & Data Science: Machine Learning (LLM), NLP (NLTK, SpaCy), Generative AI, TensorFlow, NumPy

Frameworks & Platforms: LangChain, Streamlit, FastAPI, Django, RESTful APIs, Google Gemini

Databases & DevOps: MySQL, SQLite, Git, CI basics

Other: Model optimization, prompt engineering, data visualization, Agile collaboration

WORK EXPERIENCE

Frontend Development Intern | Prakrika Technology, Bhubaneswar, Odisha | May 2024 – Jul 2024
- Developed a responsive web interface (HTML, CSS, JavaScript) to visualize geofence boundaries and live employee status on interactive maps.
- Git-based code reviews to maintain code quality.
- Prepared technical documentation and developer handover guides to improve maintainability and onboarding.
- Team size = 5

PROJECTS

Text-to-SQL LLM App (July 2025)
- Built an end-to-end natural-language-to-SQL application using Google Gemini, LangChain, Python, and Streamlit.
- Enabled non-technical users to query databases using plain English; achieved 92% query accuracy on validation data.
- Implemented schema-aware prompts and SQL injection safeguards for secure query generation.
- Link: https://text-to-sql-convertor.streamlit.app/

LinkedIn Post Generator Tool (May 2025)
- Developed a Generative AI tool with Llama 3.2, LangChain, and Streamlit to convert user inputs into professional LinkedIn posts.
- Improved content creation speed by 80% and added templates and tone controls for consistent output.
- Link: https://genai---linkedin-post-generator-nyehbb9zwhphnpggtjfev6.streamlit.app/

Student Management System (Jul 2023)
- Designed a CRUD-based student records system using Python and MySQL with secure parameterized queries.
- Reducing manual record-keeping time by 70%.

EDUCATION

BTech in Computer Science (Data Science) | GITA Autonomous College, Bhubaneswar Sep 2021 – July 2025 | CGPA: 7.81
Class 12 (Science) | D.A.V Public School, Brahmapur | 2021 | 80%
Class 10 | D.A.V Public School, Brahmapur | 2019 | 88%

CERTIFICATES

Python for Data Science, AI & Development – IBM (Coursera)
Credential ID: PPWPK42K3GW3 | Verified at coursera.org
Completed: Nov 2021

PROFESSIONAL & VOLUNTEER EXPERIENCE

Head, Networking Club, GITA Autonomous College (2024) — Led 20+ members; organized technical workshops and seminars. Best Community Volunteer

NxtWave Technologies (2023) — Supported events and student engagement reaching 200+ participants.