

THAKUR ASUTOSH DASH

Bhubaneswar, Odisha

[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | thkrdash@gmail.com | +91 9337525097

Pre-final year Computer Science student with strong foundations in Machine Learning, Data Science, and backend engineering. Experienced in building end-to-end ML systems, deploying models via FastAPI, and working on research-oriented problems under academic and industry mentorship. Actively exploring scalable AI systems, applied research, and production-grade intelligent applications.

EDUCATION

Silicon University

B.Tech in Computer Science Engineering (CGPA: 9.20)

Bhubaneswar, Odisha

2023 – 2027

SSVM, Neelakanth Nagar

12th Board (CHSE) — 92% (State Rank Holder)

Berhampur, Odisha

2021 – 2023

SSVM, Neelakanth Nagar

10th Board (CHSE) — 93%

Berhampur, Odisha

2021

EXPERIENCE

NPTEL Winter Research Intern

National Programme on Technology Enhanced Learning (NPTEL), IIT Madras

Jan 2026 – Mar 2026

Virtual — IIT Ropar

- Selected for the national-level NPTEL Winter Internship under Prof. Sudarshan Iyengar, IIT Ropar.
- Worked on guided research-oriented tasks involving analytical problem solving, technical reasoning, and structured documentation.
- Followed IIT-standard academic workflows including reporting, review-based evaluation, and outcome-focused research practices.
- Strengthened research discipline, independent learning, and clarity in communicating technical findings.

Data Science, ML & Deep Learning Intern

Syllogistek Systems Private Limited

Jun 2025 – Jul 2025

BBSR, Odisha

- Built supervised and unsupervised ML workflows including preprocessing, training, feature engineering, and evaluation.
- Performed EDA, clustering, and visualization for internal ML-driven analytics systems.
- Developed DBSCAN, K-Means, and regression models for production-oriented datasets.
- Received certificate upon successful completion.

Python Programming & Applications Intern

Syllogistek Systems Private Limited

Jun 2024 – Jul 2024

BBSR, Odisha

- Completed hands-on Python training covering DS, OOP, debugging, and module-driven development.
- Built an Employee Management System with Flask, SQLAlchemy, CRUD APIs, and backend testing.
- Worked extensively with Git, Postman, virtual environments, and REST API workflows.
- Awarded certification for program completion.

PROJECTS

AgentIO-Blog Writing Agent — Local LLMs, Ollama, Docker, FastAPI [GitHub](#) Jan 2026 – Feb 2026

- Built an blog-writing agent using locally hosted LLM, eliminating dependency on paid GPT or Gemini APIs.
- Implemented local model loading and inference with Ollama and Docker, handling resource constraints and model selection on Windows and macOS.
- Reduced hallucinations by applying controlled system prompts, temperature tuning, repetition penalties, and strict structured Markdown enforcement for deterministic outputs.
- Integrated web search and retrieval with Tavily to answer post-cutoff queries using real-time data.
- Designed a full pipeline from backend processing to frontend report delivery with persistent local memory support.
- Analyzed failure modes of local LLMs under real-time search input and iteratively refined prompt and retrieval strategies to improve reasoning consistency.
- **Live Link:** blog-writing-agent.vercel.app

Resumyzr – AI-Backed ATS Readiness & Resume–JD Analyzer [GitHub](#) *Nov 2025 – Dec 2025*

- Live Project Link
- Developed a full-stack AI web application to evaluate resume alignment with ATS-style screening signals and job descriptions, improving candidate–role matching accuracy.
- Leveraged generative AI (Gemini 2.5-Flash) to evaluate parsing quality, skill–keyword relevance, and experience alignment, delivering actionable feedback to optimize candidate–role matching.
- Built and deployed a production-grade system using React (Vite), FastAPI, and Supabase with background email notifications sending via EmailJs.

Personalised EV Wallet (Energy Forecasting) [GitHub](#) *Sept 2025 – Oct 2025*

- Live Project Link
- Developed ML models to forecast EV charging patterns and monthly energy expenses.
- Analyzed user behavior patterns to generate personalized cost recommendations.
- Designed a feature-rich dataset for improved forecasting performance.

EV Charging Chatbot Backend | FastAPI, Generative AI [GitHub](#) *Sept 2025 – Oct 2025*

- Live Project Link
- Built a scalable backend for real-time EV assistance using Gemini 2.5.
- Integrated secure API handling, CORS middleware, and production-ready endpoints.
- Designed lightweight architecture suited for mobile and web integration.

SMS Spam Classifier | Python, Scikit-learn, Streamlit [GitHub](#) *Jun 2025 – Jul 2025*

- Live Project Link
- Built a TF-IDF powered ML pipeline for SMS spam detection.
- Developed REST APIs with Flask and interactive UI in Streamlit.
- Implemented async processing with Celery and Redis.

ACHIEVEMENTS

Smart India Hackathon (SIH) *Sept 2025*

Government of India

- Led backend development for the PM Internship Portal AI module.
- Engineered recommendation engines, skill-gap analysis, and multilingual support systems.

NIRMAN Ideathon — Runners Up *Nov 2023*

RideSync Smart Mobility Project

- Proposed a real-time shared mobility routing system using dynamic path optimization.
- Presented solution feasibility and impact to an expert jury panel.

SKILLS

Languages: Python, SQL (MySQL)

Frameworks: FastAPI, Flask

Developer Tools: Git, HuggingFace, MCP, VS Code

Libraries: PyTorch, NumPy, pandas, OpenCV

Domains: Machine Learning, Deep Learning, NLP, Computer Vision, GenAI, Agentic AI, DSA

STRENGTHS

- Strong communication and interpersonal abilities.
- Leadership experience through team coordination and event management.
- Ability to manage and lead projects with clarity and accountability.
- Solid technical expertise in ML, DL, and backend engineering.

HOBBIES & INTERESTS

- Badminton and sports promoting discipline and focus.
- Personal development, goal-setting, and continuous learning.
- Mindfulness and meditation for clarity and productivity.

FUTURE GOALS

- Aim to transition into management roles combining leadership with technical depth.
- Long-term ambition to lead or build an impact-driven tech organization.
- Committed to contributing to society through initiatives supporting underprivileged communities.

ONLINE PROFILES

- [HuggingFace](#)
- [LeetCode](#)
- [X](#)