

Swarnim Deshpande

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OBJECTIVE

Aspiring engineer with a strong foundation in python, machine learning, deep learning, and algorithmic problem solving. Looking to contribute to innovative and impactful technology across diverse roles in software, data, or research-driven domains.

EDUCATION

Atria Institute Of Technology

Bachelor of Engineering in Computer Science [Data Science]

Bengaluru, Karnataka

2022 – 2026

Guru Nanak Public School

Class X, CBSE

Bidar, Karnataka

2007 – 2020

PROJECTS

Manim Cursor – Text to 2D Animation Engine

- Designed and implemented a tool to convert plain text into animated mathematical visualizations using Manim and Python.
- Developed a custom text parsing interface integrated with Manim's rendering engine to generate 2D animations.
- Enhanced accessibility of technical content by creating engaging visual explanations for complex math concepts.

Mini Transformer

- Built a simplified Transformer model from the ground up using NumPy and PyTorch, including multi-head attention and positional encoding.
- Demonstrated strong foundational understanding of neural sequence modeling through end-to-end implementation.

Live IPL Betting App

- Developed a real-time betting platform where users place dynamic bets based on live cricket match events such as sixes and wickets.
- Integrated live match APIs to instantly update team odds and user bets, enabling accurate, real-time betting experiences.
- Built a user-friendly interface with Python and Streamlit, improving engagement with responsive and interactive design.

ACHIEVEMENTS & CERTIFICATIONS

- Winner – Arya AI Hackathon (2024):** 1st place among 75 teams.
- Top 5% – 100X Buildathon (2025):** Top 10 out of 200+ national entries.
- TensorFlow (GSoC'25 Contributor):** Enhanced docs, added unit tests, proposed internal improvements.
- Hacktoberfest'24:** Fixed bugs, submitted PRs to Python/full-stack projects.
- Oracle OCI – *Generative AI Certified Professional*
- Google Data Analytics & Advanced Data Analytics Specialization –
- IBM AI Developer Specialization
- MongoDB CRUD Mastery using Node.js, Java, Python, C#

TECHNICAL SKILLS

Languages: Python, C++, SQL, R

Frameworks/Libraries: PyTorch, TensorFlow, Scikit-learn, Flask, FastAPI

DSA: Trees, Graphs, Heaps, DP, Backtracking, Bit Manipulation, Hashing

Tools/Platforms: Git, Docker, VS Code, GCP, OCI

Analytics/Visualization: Pandas, NumPy, Matplotlib, Power BI, Tableau

System Design/Cloud: REST APIs, Microservices, Load Balancing, AWS, Kubernetes