

AVIK PATHAK

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EDUCATION

Vivekananda Mission School

ICSE

Percentage: 92%

Kolkata, West Bengal, India

2017

Vivekananda Mission School

ISC

Percentage: 95%

Kolkata, West Bengal, India

2017 - 2019

Institute of Engineering and Management

B.Tech

DGPA: 9.44

Kolkata, West Bengal, India

2020 - 2024

TECHNICAL SKILLS

Programming Languages: C++, C, Python, SQL

Libraries and Architectures: PyTorch, Tensorflow, Streamlit, Flask, Azure Data Factory, Snowflake, PowerBI, Large Language Models(LLMs), Transformers, Llama AI, Gemini AI

Profiles: [LeetCode](#), [GitHub](#), [X](#)

WORK EXPERIENCE

Software Development Engineer Intern

JMAN, onsite

Jan 2024 - April 2024

- Worked on **data modeling**, **warehousing**, and **DBT** to find **Key Performance Indicators(KPIs)** using data warehouse tables for **business use cases**.
- Designed an **Employee Training Management System** using **MERN Stack**, extensively utilizing **MongoDB** as a **database** and **Node.js** for the backend.
- Utilized seeders to test scalability and exported seeded data to **Snowflake Data Warehouse** for transformations using **DBT**.
- Developed a **PowerBI dashboard** based on required KPIs and created a prediction model using **AutoSklearn regression** with an **r2.score** of **0.95**. Created a **Flask API** to deploy the model in the React frontend.

PROJECTS

- **English Tuition App:** [App link](#) [Github Repo](#)
- Created an English Tuition App for the client in **MERN stack** using **Node.js** as the backend, **MongoDB** as the database, and **Cloudinary** for storage.
- Used **React-Tailwind** to make the site responsive and implemented user authentication APIs, functionalities to enroll students, and manage notes and student data through the website.
- **Lenskart Scrapping Project** [Github Repo](#)
- Webscraped **Lenskart** using APIs from the network, **BeautifulSoup**, and **Regex** to extract and analyze key business metrics. Delivered **KPIs** as per client requirements for better insights.
- Generated **deliverable** and **insightful data** across platforms, helping the client gain **better business analytics** and improve decision-making.

PUBLICATIONS

- **Performance Analysis of LoRA Finetuning Llama-2**, A. Pathak, O. Shree, M. Agarwal, S. D. Sarkar and A. Tiwary, 2023 7th International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech), Kolkata, India, 2023, pp. 1-4, DOI: [10.1109/IEMENTech60402.2023.10423400](https://doi.org/10.1109/IEMENTech60402.2023.10423400)

ACHIEVEMENTS

- **Winner: Course5i Track @Datahack 1.0:** A datathon organized by **Society for Data Science (S4DS)**, Dj Sanghvi College of Engineering, Mumbai