

DEEPAM DIBYAJYOT

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TECHNICAL SKILLS

Languages: Python, SQL, C/C++, Racket, Bash, JavaScript/TypeScript

Frameworks/Libraries: Pandas, NumPy, Scikit-Learn, Pytorch, OpenCV, D3.js, React.js, Node.js, Next.js

Developer Tools: MySQL, PostgreSQL, SQLAlchemy, MongoDB, Git Bash, GitLab, Jira, Asana, Figma

Concepts: Data Engineering, Data Analysis, Predictive Modeling, Time Series Analysis, Machine Learning, ETL Pipelines, Data Warehousing, Cloud Computing, SQL Optimization

EXPERIENCE

Data Engineer

September 2024 – Present

OmniBiz

Lagos, Nigeria

- Designed a predictive procurement model, outperforming ARIMA by **27%** in accuracy using custom business intelligence metrics.
- Streamlined data integration with **Snowflake**, reducing query time by **45%** for real-time insights.
- Optimized data pipelines with **SQL**, improving query efficiency & reducing ETL processing time by **35%**.
- Built **Tableau** dashboards, reducing stockouts by **18%** and enabling data-driven decisions.
- Delivered weekly KPI reports for warehouse inventory, ensuring 100% timeline adherence and cutting overstock costs by **15%**.
- Enhanced model adaptability using **Python** and **TensorFlow**, boosting forecast reliability by **30%**.

Full Stack Developer

Jan 2023 – Apr 2023

XE.com

Newmarket, ON

- Migrated Public Transfer PHP pages to **Next.js**, improving responsiveness, scalability, and efficiency by **37%**, effectively handling over **1.6+ billion** annual visits.
- Implemented a real-time currency chart using **D3.js**, enhancing visualization & boosting engagement by **35%**.
- Deployed scalable content delivery solutions using **AWS S3** and **CloudFront**, reducing load times by **25%**.
- Created destination pages using **Contentful CMS** & **GraphQL** driving a **45%** increase in money transfers.

Software Developer

May 2022 – Aug 2022

CAA Club Group

Thornhill, ON

- Implemented the employee portal on **Next.js** and **MaterialUI**, supporting an userbase of 4500+ employees.
- Automated vehicular deployment portal, resulting in **225%** faster response time to road-side emergencies.
- Created REST APIs in **MuleSoft/SoapUI** and **Axios** for security audits and live user data synchronization with the database.

PROJECTS

MedScape 🗄️ | Python, PyTorch, Flask, Streamlit

- Developed image registration tool to align & consolidate multiple eye images, yielding unified image of retina.
- Engineered CNN model using **SuperRetina** & **Torchvision**, trained on FIRE database having 134 image pairs.
- Implemented keypoint detection algorithm, optimizing **accuracy to 99.25%** via spatial transformations.
- Employed **Streamlit** for dynamic dashboards, enabling user input of images and giving insights into image registration accuracy, alignment metrics, and transformation parameters.

MovieMatch 🗄️ | Python, PyTorch

- Developed an **NLP based** recommendation system giving top movie suggestions based on user query.
- Leveraged **BERT transformer** architecture for contextual encoding in feature extraction for movie suggestion.
- Processed **40,000** movie summaries, applying lemmatization & tokenization techniques for standardized textual analysis.

EDUCATION

University of Waterloo

Candidate for BCS in Computer Science

Waterloo, ON

Sept. 2021 – May. 2026