Mayank Nagar *Master's Student*

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in mayank-nagar10

ABOUT ME

Data Science M.Sc. student at TUHH, skilled in data engineering, machine learning, and ETL pipelines, passionate about innovative data-driven solutions.

SKILLS

Data Analytics & Visualization
Data Analysis | Tableau | Power BI | Data Wrangling

Programming & Machine learning
Python & R | SQL | PyTorch | Scikit-Learn | PySpark

Software & Tools
Microsoft Excel | SSMS | VS Code | Version Control Git | Microsoft Azure

Data Engineering & ETL
ETL (Extract, Transform, Load) | Data Migration | Azure Data Factory | Data Processing

EXPERIENCE

04/2025 – Present
49406 Barnstorf, Deutschland

Data Science Intern, *Harbour Energy* ↗
- Currently developing high-resolution microCT images using **CycleGAN, FFT, and interpolation** techniques, targeting conversion from **64*64*64 to 1024*1024*1024** resolution.
- Actively enhancing image processing tools for **3D rock micro-models to improve fluid flow simulation accuracy**.
- Gaining hands-on experience in machine learning platform development, **model training optimization**, and exploring related **GAN algorithms like 3D EDSR**.

08/2022 – 08/2024
Pune, India

**Programmer Analyst (Data Engineering – AIA),** *Cognizant Technology Solutions* ↗
- Utilized **IBM Cognos Analytics** to enhance strategic decision-making, improving **decision-making** efficiency by **20%**.
- Engineered **ETL pipelines** with **Azure Data Factory**, Azure Storage, and SQL Server, streamlining data migration and **reducing latency** by **30%**.
- Developed and optimized code as per business requirements, achieving **70% to 80% data accuracy** and improved **processing efficiency** by around **25%** with Azure services.
- Authored and maintained **technical documentation**, reducing onboarding time by **15%** and facilitating knowledge sharing.

01/2022 – 05/2022
Pune, India

Programmer Analyst Trainee (AIA) – Intern, *Cognizant Technology Solutions* ↗
- Created reports and visualizations with PySpark and SQL that **made stakeholders 25%** more involved and **30% faster** and more accurate at **making decisions**.
- Worked with a team to put **data-driven solutions** into action, which cut the **turnaround time by 20%**.
- Executed **data preprocessing** on both structured and unstructured datasets, which cut processing errors by **15%**.

EDUCATION

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10/2024 – Present Hamburg, Deutschland	**Master of Science in Data Science,** *Hamburg University of Technology (TUHH)* ⬈
08/2018 – 07/2022 Lonere, India	**B.Tech. in Computer Science and Engineering,** *Dr. Babasaheb Ambedkar Technological University* ⬈

CERTIFICATES

- Data Science Methodology ⬈
- Machine Learning Specialization ⬈
- Microsoft Azure Data Fundamentals ⬈

ORGANISATIONS

Aurangabad, India	**EPiC Foundation,** *Volunteer* • EPiC is an India talent platform for differently Abled. • I gave my service towards the cause, and worked towards an inclusive society and sustainable future.
Aurangabad, India	**Indian Red Cross Society,** *Volunteer* Organised blood donation camp and contributed towards society and country.

PROJECTS

11/2024 – 03/2025	**Routing Tool for High and Heavy Cargoes,** *Siemens Gamesa Renewable Energy GmbH & Co. KG | TU Hamburg - Fishing for experience* ⬈ • Implemented Python routines to optimize oversized cargo routing in Germany, meeting weight and bridge constraints. • Extended Yen's algorithm to allow users to validate secure alternate routes. • Aided development, testing, and integration of time/distance and permit data.
08/2023 – 01/2024	**Dynamic urban transit optimization,** *IRJET (International Research Journal of Engineering and Technology) ISSN No. 2395-0072* ⬈ • A GNN approach for real-time public transportation network management. • This study proposes a approach to optimize urban transit systems in real time. • The focus is on designing and managing public transportation networks.
08/2021 – 07/2022	**Bachelor Thesis: Stock market analysis and prediction** • Analyzed real-time stock market data and different deep learning algorithms. • Developed a solution with preprocessing and LSTM for price trend prediction. • Enabled prediction of closing stock prices and financial plot visualizations

LANGUAGES

- German (A2 Learning)
- English
- Hindi

Mayank Nagar
Hamburg, Deutschland