

Tushar Purohit

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Profile Summary

I am a Master's student in Computer Science at TU Dresden with a strong focus on Data Science and Software Development. On the data science side, I enjoy working with machine learning models, data pipelines, and turning raw datasets into meaningful insights using Python, Pandas, and ML frameworks. On the software development side, I build scalable applications and backend systems using C++, Next.js, and FastAPI, with a focus on performance, clean architecture, and real-world usability. My goal is to bridge the gap between data and product — building intelligent systems that are not only accurate, but also useful, scalable, and production-ready.

Education

- Master of Science in Computer Science, Technical University of Dresden
- Bachelor of Engineering in Computer Science, Mumbai University, India

Skills

- **Programming & Data:** C++, Python, SQL, Pandas, NumPy, basic SQLAlchemy
- **Databases:** PostgreSQL, MySQL
- **Data Engineering:** Data collection, cleaning, ETL workflows, preprocessing
- **Visualization:** Matplotlib, Seaborn, dashboards/reports
- **Tools:** Git, GitHub, Microsoft Excel, VS Code
- **Core Strengths:** Analytical thinking, problem-solving, attention to detail, teamwork

Professional Experience

System Engineer | Seclore, Mumbai | Jul 2024 – Sep 2025

- Worked with structured systems and data processes to ensure reliability and performance
- Automated repetitive workflows, improving operational efficiency and data consistency
- Investigated issues through logs and system analysis using a structured problem-solving approach

- Collaborated with cross-functional teams to implement technical improvements

UI Developer Intern | Etihad Holidays | [Sep 2022 – Oct 2022]

- Built and improved user-facing web components with focus on usability and data presentation
- Worked with structured data inputs and interface improvements

Developer Intern | Sequel String | Feb 2023 – Mar 2023

- Developed Python scripts for data extraction, transformation, and processing
- Structured datasets for analysis and reporting purposes
- Built visual outputs to communicate findings effectively

Projects

Customer Churn Prediction System (Python, SQL, ML)

- Built an end-to-end pipeline for preprocessing customer data, feature engineering, and predictive modeling
- Used structured datasets to generate retention-focused business insights

AI Healthcare Chatbot (Python)

- Developed an intelligent chatbot to process user inputs and generate automated healthcare responses
- Applied NLP logic and real-time data handling concepts

Blockchain Health Insurance System

- Built a secure decentralized platform for health insurance workflows and claims logic
- Focused on data integrity, secure records, and automated verification processes

GitHub Link: <https://github.com/Tusharr1212>

Extracurriculars

- Active participant in team sports, having won college football tournaments, fostering strong teamwork and collaborative skills.
- Volunteered for major college events (Hysteria and Kshitij), managing tasks and supporting community initiatives