Tulika Lunkad

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About

Data Science & Analytics Engineer with internship experience at IIT Guwahati, skilled in Python, MySQL, Power BI, and Tableau.
Experienced in developing data-driven dashboards and ML-based anomaly-detection systems. Passionate about turning complex datasets into actionable insights through clean code, visualization, and AI integration.

Education

BHILAI INSTITUTE OF TECHNOLOGY — Durg, Chhattisgarh, India
Bachelor in Technology – Computer Science and Engg. (Data Science) – **CGPA: 9.55** — Expected May 2026

KRISHNA PUBLIC SCHOOL — Bhilai, Chhattisgarh, India
Senior Secondary (XII) – **90.2%** — May 2022

Skills

Programming: Python, SQL, JavaScript (Basics)
Data & ML Tools: Pandas, NumPy, PyTorch, TensorFlow, LangChain, Tableau, Power BI
Databases: MySQL, MongoDB
Cloud: AWS, Azure
Web & Visualization: ReactJS, Streamlit, Dash
Analytical: Data Cleaning, ETL, Data Modeling, Statistics

Certifications

Google Data Analytics Professional Certificate (Coursera)
Completed an 8-course series covering topics such as data cleaning, SQL, visualization (Tableau, R programming) for data analysis.
Data Analytics and Job Simulation (Forage, Accenture)
Gained practical experience in data analysis through real world simulation projects.

Projects

- **Hospital Management Dashboard | *Power BI, MySQL, Excel***
  - Designed a multi-page hospital management dashboard with seamless navigation across 5 functional modules (patients, doctors, finance, staff, etc.).
  - Integrated MySQL as backend to handle patient and financial records; optimized queries for real-time reporting.
  - Delivered KPIs such as patient inflow, doctor performance, billing trends, and resource utilization, enabling data-driven decision-making.
- **Olympic Data Analysis Dashboard | *Python, Streamlit, Pandas, Plotly, Seaborn***
  - Developed an interactive analytics dashboard analyzing Olympics data with medal tallies, country trends, and athlete insights.
  - Engineered dynamic filters for year, country, and sport to generate tailored visualizations.
  - Processed and transformed large datasets with Pandas for accuracy and speed.
- **Data Sales Insights Using Tableau | *Tableau, SQL, MySQL, Excel***
  - Analyzed 3+ years of sales data from AtliQ Hardware, identifying revenue drivers and profitability trends.
  - Designed a Tableau dashboard powered by a SQL-driven star schema for in-depth KPI analysis (revenue, top products).
  - Automated ETL workflows and cleaned large datasets to ensure consistency and reliability.

Work Experience

Data Science (ML) Research Intern – IIT Guwahati | May 2025 – August 2025
- Implemented COSKAD (Contracting Skeletal Kinematics for Anomaly Detection) model for human-related video anomaly detection using HR-UBnormal dataset.
- Adapted architecture for CPU execution and smaller skeletal datasets, performing pose estimation (AlphaPose, PoseFlow), graph convolutional encoding, and latent space contraction for anomaly scoring.
- Achieved AUC ~61% (Spherical) and ~51% (Euclidean) latent spaces, closely matching research benchmarks.
- Tools: Python, PyTorch Lightning, Matplotlib, NumPy, Pandas.

Web Development Intern - TSF| May 2024 – June 2024
- Developed and deployed a Basic Banking System web application using PHP, MySQL, and JavaScript.
- Designed relational database schemas in MySQL to store and track transactions.
- Ensured data integrity, optimized queries, and deployed application online for user interaction.

Extracurricular

- **Hult Prize BITD 2025** – Content Executive
- **Google Devfest Bhilai 2023** – Volunteer