Masud Khan

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SUMMARY

Results-driven B.Tech Mechanical Engineering student transitioning into **Data Analytics** with practical expertise in **Python**, **SQL**, and **Power BI**. Recently completed a **Data Analytics Internship** at Codec Technologies, gaining hands-on experience in **EDA**, data cleaning, and dashboard creation. Proven ability to translate complex datasets into actionable business insights through projects in fraud detection and operational optimization. Seeking to leverage analytical skills to drive impactful data solutions.

TECHNICAL SKILLS

Languages: Python, SQL (MySQL, PostgreSQL), C++, HTML/CSS
Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, PyTorch, Plotly
Tools: Power BI, Tableau, Excel (Advanced), Jupyter, Git/GitHub, n8n, VS Code
Concepts: EDA, Statistical Analysis, A/B Testing, Machine Learning, Data Visualization, ETL

EXPERIENCE

Codec Technologies Pvt. Ltd. — Remote
Data Analytics Intern — *Dec 2025 – Jan 2026*
- Executed end-to-end data analysis projects utilizing **Python** and **SQL**, focusing on data cleaning, transformation, and visualization to extract actionable business insights.
- Developed interactive dashboards and visual reports (Matplotlib/Seaborn) to present key performance indicators (KPIs), improving data accessibility for stakeholders.
- Collaborated with the technical team to optimize data collection pipelines, reducing data preprocessing time by automating repetitive cleaning tasks.

Chegg India Pvt. Ltd. — Remote
Subject Matter Expert (Statistics) — *Jan 2023 – Jun 2025*
- Solved complex statistical problems involving Regression Analysis, Hypothesis Testing, and Probability distributions with a **95%+ accuracy rate**.
- Maintained high volume throughput under strict Service Level Agreements (SLAs), demonstrating strong time management and analytical precision.

GFG Student Chapter — Bilaspur, India
Data Lead & Technical Mentor (AI/ML) — *Jan 2023 – Jun 2024*
- Led a team of 50+ members in executing ML projects, overseeing the lifecycle from data collection to deployment.
- Conducted workshops on Python, Deep Learning (CNNs), and Data Visualization, fostering a data-driven culture.

CERTIFICATIONS

IBM Data Analyst Professional Certificate — Certificate Link
IBM (via Coursera) — *Completed*
- Completed an intensive 11-course professional program covering Python, SQL, Data Visualization, Exploratory Data Analysis (EDA), Generative AI, and a real-world Capstone Project.

BS in Data Science & Applications – Foundation Level — Certificate Link
Indian Institute of Technology Madras (IITM) — *Completed*
- Completed foundational coursework in Statistics, Python Programming, Data Analysis, and Mathematics for Data Science.

Data Analysis with Tableau — Certificate Link
Coursera Verified — *Completed*
- Mastered data preparation, exploratory analysis, descriptive statistics, and interactive visualizations using Tableau's analytics features.

Business Analysis Fundamentals — Certificate Link
Coursera Verified — *Completed*
- Learned core business analysis concepts including requirement gathering, stakeholder analysis, problem identification, and solution design.

PROJECTS

Education IT Sector Scam Analysis | *Python, Pandas, Seaborn, EDA* Jan 2026
- Conducted in-depth Exploratory Data Analysis (EDA) on educational scam datasets to identify fraud patterns and financial anomalies.
- Visualized correlation matrices and trend lines to pinpoint high-risk demographics and scam methodologies.
- Generated a comprehensive analytical report outlining the rise of IT-sector specific fraud, providing data-backed recommendations for awareness.

Restaurant Operations & Profitability Dashboard | *SQL, Power BI, DAX* Oct 2025
- Designed a holistic operational dashboard by querying raw sales and inventory data using SQL.
- Implemented complex DAX measures to track Profit Margin, Customer Retention, and Peak Service Hours.
- Delivered insights that identified low-margin menu items, enabling a data-driven pricing strategy optimization.

Fake News Detector (RAG Architecture) | *Python, RoBERTa, PyTorch, FAISS* Sep 2025
- Fine-tuned a RoBERTa transformer model for binary text classification, optimizing for precision in misinformation detection.
- Engineered a Retrieval-Augmented Generation (RAG) system using FAISS to fetch semantic context, grounding predictions with evidence-based sources.

Smart IV Drip Monitoring System (Govt. Funded) | *IoT, C++, Hardware, Firebase* Aug 2025 – Dec 2025
- Developed a Ministry of Education funded academic project featuring a smart IV drip system with real-time monitoring and flow control.
- Engineered a dual-alert system that instantly triggers notifications on nurse tablets and mobile phones upon fluid depletion.
- Integrated hardware sensors with a Firebase backend to ensure continuous, latency-free data transmission for patient safety.

EDUCATION

Guru Ghasidas Vishwavidyalaya (Central University) Bilaspur, India
Bachelor of Technology in Mechanical Engineering *2022 – 2026*