Mehak Sharma

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Education

JSS Academy of Technical Education, Noida, Uttar Pradesh	*2021 – 2025*
Bachelor of Technology in Computer Science and Engineering	*GPA: 7.10/10*
Cambridge School Noida, Uttar Pradesh	*2020 – 2021*
Higher Secondary School	*Percentage: 86.2%*
Cambridge School Noida, Uttar Pradesh	*2018 – 2019*
Secondary School	*Percentage: 92.2%*

Technical Skills

Analytics & Tools: SQL, Python (Pandas, NumPy, Scikit-learn), Excel (Pivot Tables, VLOOKUP), Power BI

Databases & Languages: MySQL, MongoDB, SQL, Python, JavaScript, C++

Business & Data Analysis: KPI Tracking, A/B Testing, Market trend analysis, Hypothesis generation, Insight communication, Process optimization, Dashboard development, Stakeholder Reporting, Data Engineering

Soft Skills: Problem-solving, Collaboration, Communication, Self-learning, Process Improvement

Experience

CDAC (Centre of Development of Advanced Computing) — **May, 2025 - Present**
SNLP Trainee - Machine Learning and NLP — *Noida, India*

- Designed and developed Django-based web applications for data preprocessing and result visualization.
- Built end-to-end data analysis pipelines using Python (Pandas, Scikit-learn) for data cleaning, transformation, and statistical modeling.
- Analyzed and processed extensive datasets for NLP and ML projects, including text classification, OCR, and language translation workflows.
- Orchestrated multi-agent AI workflows for autonomous task management.

Projects

Customer Churn Analysis using Machine Learning & Business Intelligence | *Python, SQL, Power BI, Scikit-learn, Pandas, Matplotlib, Business Analysis* [View](#)

- Developed a customer churn prediction model using Python (Pandas, Scikit-learn), achieving 85% accuracy and an 82% F1-score.
- Utilized SQL to extract and analyze churn patterns from over 10,000 customer records.
- Created interactive Power BI dashboards to visualize key performance indicators (KPIs), enabling data-driven business decisions.
- Enhanced model performance through feature engineering and hyperparameter tuning.

HR Data Analytics & Employee Attrition Dashboard | *SQL, Power BI, Data Analysis* [View](#)

- Analyzed employee data using SQL to uncover performance and attrition trends, boosting data accuracy by 20%.
- Developed Power BI dashboards to visualize key metrics like retention and productivity, saving HR 3-4 hours of analysis time.
- Delivered actionable insights that improved employee satisfaction and reduced attrition by 15%.

Full Stack E-Commerce Web App with React & MongoDB | *MongoDB, React, Node.js, Express.js* [View](#)

- Developed a full-stack e-commerce platform using React, Node.js, Express.js, and MongoDB, increasing user engagement by 40%.
- Integrated secure payments, optimized APIs, and scaled for 10K+ users with <200ms response time.
- Implemented user auth, product catalog, cart, and order flow for smooth operations.
- Conducted sales and user behavior analysis, boosting conversion rates by 25% through data-driven UX improvements.

Certifications

- **[Google Data Analytics Professional Certificate](#)** | *Coursera*
- **[Career Essentials in Data Analysis by Microsoft and LinkedIn](#)** | *Microsoft*

Achievements and Co-Curricular

- Served as **Vice President of YFAC NGO Society** and **volunteer at Drishti Foundation**, contributing to initiatives for women and children.
- Held the role of **Music Head at Verve Cultural Club**, performing at inter-college and campus events.
- Actively participated in **Smart India Hackathon (SIH)** and represented the college in **MUNs and Youth Parliament debates**.