Md Ehtesham Ansari
Indian Institute of Technology Madras (India)

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Education

Program	Institution/Board	Grade/CGPA	Year
B.S. (Data Science & Applications)	Indian Institute of Technology Madras *Chennai, Tamil Nadu*	**7.00/10**	2023-27
B.Sc. (Mathematics Hons.)	Central University of Jharkhand(CUJ) *Ranchi, Jharkhand*	**8.5/10**	2023-27
Higher Secondary (Class XII)	SAGES Jashpur, (CGBSE) *Jashpur,Chhattisgarh*	**A**	2022
Secondary(Class X)	St. Paul's, (CGBSE) *Jashpur, Chhattisgarh*	**A**	2020

Projects

Employee Attrition Prediction (ML Dashboard)
○ Developed and deployed an **XGBoost-based** machine learning model to predict employee attrition and provide risk interpretation.
○ Built a clean and interactive **Streamlit** dashboard enabling HR teams to input employee attributes and view predictions in real time.
○ *Tech: Python, Pandas, Scikit-learn, Streamlit | Code: github.com/23f2005532/employee-attrition-prediction*

Data Pipeline Simulator
○ Designed a modular **ETL pipeline simulation framework** to demonstrate ingestion → transformation → storage → monitoring of dataset workflows.
○ Integrated **Prefect/Airflow-style orchestration** and a Streamlit monitoring dashboard to visualize pipeline states and logs.
○ *Tech: Python, Pandas, SQLite, Streamlit | Code: github.com/23f2005532/Data-Pipeline-Simulator*

Smart Expense Tracker (Web + CLI Tool)
○ Built a full-stack personal finance management application with **web dashboard** and **command-line interface** for admin operations.
○ Implemented a basic **ML-based auto-categorizer** to classify expenses and generate category-wise spending visualizations.
○ *Tech: Python, Flask, Vue.js, SQLite | Code: github.com/23f2005532/Smart-Expense-Tracker-CLI-Dashboard-*

Coursework

○ **Programming:** Programming in Python, Data Structures & Algorithms, Modern Application Development I & II (Projects), System Commands (Linux), Programming Concepts using Java
○ **Data & ML:** Database Management Systems, Business Data Management, Machine Learning Foundations, Machine Learning Techniques
○ **Mathematics & Statistics:** Mathematics for Data Science I & II, Statistics for Data Science I & II

Technical Skills

○ Languages: Python, JAVA, C, SQL
○ ML/DS: Pandas, NumPy, Scikit-learn, Streamlit
○ Databases: MySQL, SQLite, SQLAlchemy PostgreSQL
○ Web: HTML, CSS, JavaScript, Vue.js, Flask, FastAPI, Django
○ Tools: Git, Linux, VS Code, Jupyter, Ollama, Docker, Podman, Kubernetes, Hugging Face