

# Shagun Mohta

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## WORK EXPERIENCE

### Data Engineer, Micron

Jul 2024 – Present — Hyderabad

- Led end-to-end development of Micron's **People Analytics Platform**, simplifying access to critical people insights for **250+** HRBPs and senior leaders.
- Developed UI for the People Analytics Dashboard, leveraging **Angular, TypeScript and Bootstrap**.
- Built semantic models in **Snowflake Cortex**, enabling LLM-powered natural-language-to-SQL conversion and reducing manual effort by **50%**.
- Implemented **Snowflake Agentic AI** workflows using **REST APIs** to power People Analytics chatbot, providing real-time insights on HR data.
- Performed comprehensive data validation checks, implementing scheduled data metric functions and enabling real-time alerting mechanisms, improving downstream data quality by **40%**.
- Built scalable **ETL pipelines** using **Apache NiFi, Coalesce, ActiveBatch**, automating seamless data migration from **MSSQL** and **SAP HANA** to **Snowflake**.

### Data Analytics Intern, ServiceNow [↗](#)

May 2023 – Jul 2023 — Hyderabad

- Created and validated complex SQL queries to generate views in Snowflake, directly supporting 8 essential business metrics in the **ServiceNow KPI dashboard**.
- Implemented query optimization techniques in existing Snowflake procedures to enable efficient partition pruning, **improving execution times by 20.69%**.

## EDUCATION

### Indraprastha Institute of Information Technology, Delhi, India

Jan 2020 – Jun 2024

Bachelor of Technology in Computer Science and Social Sciences

GPA: 8.19 / 10.0

## PROJECTS

### Rainfall Prediction and Analysis [↗](#)

- Developed a daily rainfall prediction model by analyzing 10 years of Australian weather data, leveraging **100k+** records across **20+** meteorological variables.
- Benchmarked multiple ML classifiers (Naive Bayes, SVM, Logistic Regression, AdaBoost, xGBoost, Random Forest), achieving most **accuracy 79.8%** using **AdaBoost (depth=8, n-components=5)**.
- Performed data wrangling, visualization, model evaluation in **Python (Pandas, NumPy, Matplotlib)**.

### Will Hero Game Adaptation [↗](#)

- Developed a real-time, fully responsive GUI adaptation of the Will Hero game using **Java, JavaFX (SceneBuilder)**, delivering seamless user interaction.
- Implemented game state serialization to persist user progress, enable resume-from-pause, and maintain materialized results across sessions.
- Prioritised **OOPS** to achieve code reusability and modularity across 15+ game entities.

## SKILLS

**Languages & Frameworks** Python, SQL, Java, JavaScript, C/C++, React, Angular, Node.js, Express, HTML/CSS

**Data Engineering Tools** Snowflake, Apache NiFi, Coalesce, GCP, ActiveBatch, Git

## LEADERSHIP & VOLUNTEERING

**Teaching** Teaching Volunteer (Chotuu Ki Education, NGO); Teaching Assistant — Introduction to Programming, Multivariable Calculus (IIITD)

**Event Leadership** Events Organizer (SMAI Engagement Committee, Micron); Events Lead — Girl Up Udaan, ACM, Odyssey'23, Meraki (IIITD)