Tushar Basak

Post Graduate | Department of Computer Science

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Personal Details:-	*Gender:* Male	*DOB:* 02 Oct 1997	*Age:* 25	📍 *Address:* Kanpur, UP.

ACADEMIC QUALIFICATIONS

Year	Degree	Institute	Performance (CPI/%)
2021 - 2023	MCA	Manipal University Jaipur	**8.8**/10.0
2019	B.Sc.	Subharti University, Meerut	**68.5**%
2016	Class XII (ISC)	St. Aloysius High School, Kanpur	**60**%
2014	Class X (ICSE)	St. Aloysius High School, Kanpur	**71.8**%

EXTRA ACADEMIC ACTIVITIES

- Office Bearer with the Portfolio of Cultural Coordinator.
- I have done Seminar on the topic In-Memory Data Management.
- The elective subjects for a specialization were in both Open Source Database Systems and Cloud Database Systems.
- I have also completed a specialization in Data Engineering on Coursera. *View*
- I have participated in the Cloud Security Challenge up to Level 3 on the Google Cloud Platform. *View*

WORK EXPERIENCE

Data Engineering Trainee, MedTourEasy *(May'23-June'23)*

Mentor: *Ankit Hasija (Training Head)*

Objective	• Complete a **self-paced 4-week Data Engineering Traineeship**. • Master fundamental skills in Data Engineering, including **data ecosystem** and **lifecycle**, **Python programming**, **ETL**, **SQL**, and **relational databases**.
Apporoach	• Engage in a combination of **theoretical** and **hands-on learning**. • Collaborate with **Coursera course "Data Engineering Foundations"** by IBM. • Work on projects incorporating various data formats, **ETL processes**, **APIs**, **webscraping**, and **SQL**.
Outcome	• Demonstrated mastery of fundamental Data Engineering skills. • Proficiency in **Python programming**, **data manipulation**, and **querying real-world datasets**. • Ability to tackle foundational Data Engineering challenges and projects.

KEY PROJECTS

Real-Time Stock Market Data Processing Engine *(Manipal University Jaipur)* *(April'23-June'23)*

Objective	Develop real-time data processing and analysis using **Apache Kafka** and **AWS** services.
Approach	Implemented Python-based mechanism for data extraction. Established continuous data stream with **Apache Kafka**. Utilized **AWS S3**, **Glue Crawler**, and **Athena** for efficient storage and querying.
Outcome	Successful real-time data processing and analysis. Seamless data exploration. Enhanced expertise in **Apache Kafka** and **AWS** services.

Analysis of Chemical Components *(MedTourEasy)* *(May'23-June'23)*

Objective	Develop **content-based recommendation system** for cosmetic products.
Approach	**Data preprocessing**, **NLP**, **t-SNE** for dimensionality reduction, interactive **Bokeh visualizations**.
Outcome	• **Personalized cosmetic product recommendations** based on ingredient similarities. • **Enhanced shopping experience**. Gained **data engineering skills** in preprocessing, NLP, and visualization.

POSITIONS OF RESPONSIBILITY

City President, BloodConnect Foundation *(Apr'23-Present)*

Leadership	• Spearheading **2-tier** team of **20+** students to foster and promote a **noble cause initiative**. • Efficiently managing a budget of **INR 2.5 lpa** for **events**, overseeing **seamless reimbursement** procedures
Initiatives	• Improved **helpline** process, implementing procedures for **enhanced response time** and **customer satisfaction**.
Impact	• Organized **20+** blood donation camps, collecting **1K+ units** of blood, and impacting **3K+ lives** in Kanpur. • Encouraged and inspired the campus community to actively participate in **saving lives** through **blood donation**.

SKILLS

Languages:	Java, Python, and Scala.
Frameworks:	Apache Kafka, Apache Spark, Apache Hive, and Apache Airflow.
Libraries:	KStream, Scikit-learn and Apache Hadoop.
Databases:	Apache Hive and Amazon S3.
Dev Tools:	Docker and Kubernetes.