Ankit Deopurkar

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EDUCATION

Northeastern University **Boston, MA**
Master of Science in Information Systems Expected May 2026
Coursework: Data Science Engineering Methods & Tools, Application Engineering & Development, Big-Data Systems and Intelligence Analytics and Data Management and Data Design **GPA: 3.7/4**
University Of Mumbai **Mumbai, INDIA**
Bachelor of Engineering in Electronics Engineering Aug 2017 - Jun 2021

SKILLS

- **Programming Languages**: Java, Python, C++, C, JavaScript, C#
- **Software Development:** Object-Oriented Programming (OOP), Design Patterns, RESTful APIs, Microservices, Multithreading, Unit Testing
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, API Gateway), Docker, Kubernetes, Jenkins, Git, Linux
- **Web & Backend Development**: FastAPI, Flask, Django, Spring Boot, Node.js, Express.js
- **Databases**: PostgreSQL, MySQL, MongoDB, Oracle Cloud
- **Libraries & Frameworks**: NumPy, Pandas, TensorFlow, Sci-Kit Learn, PySpark, Kafka

WORK EXPERIENCE

KPMG India **Mumbai, INDIA**
Software Engineer Apr 2022 – Jul 2024

- Developed **Python**-based financial risk APIs for investment banks, supporting real-time credit risk evaluations.
- Optimized multi-threaded **ETL** pipelines handling 100M+ transactions daily, reducing processing time by **60%.**
- Built automated trading and risk analysis systems with **FastAPI** and **Flask**, reducing manual reporting efforts by **45%.**
- Migrated monolithic banking apps to Python-based **microservices** on **AWS**, cutting operational costs by **30%**
- Implemented fraud detection models using Kafka, **Spark**, and ML, improving detection rates by **40%**

Network Marvels **Mumbai, INDIA**
Software Engineer Jun 2021 – Mar 2022

- Prepared a multi-disk security system using **C++** and **C#** with AES-256 encryption, enhancing system integrity by **43.3%** and ensuring compliance with military-grade security standards
- Designed a pipeline for data transfer across the Windows Registry in C++ which allowed transfer of **SHA-256** encrypted data from disk drive to other Operating Systems
- Conducted data-driven testing, including **UAT** and **SQL**-based backend validation, ensuring system reliability and data accuracy

ACADEMIC PROJECTS

Web Scraping & Automated Data Extraction Jan 2025

- Built a scalable web scraping system using **BeautifulSoup**, **Firecrawl**, and a PDF parser to extract unstructured data from online sources
- Developed an API using **FastAPI** to expose extracted data, allowing seamless integration with other applications
- Designed an interactive **Streamlit** dashboard for real-time visualization and exploration of extracted datasets

Fundamental and Financial Data Extraction Feb 2025

- Built a FastAPI web scraper to extract dataset links from financial websites, automating data ingestion
- Designed a multi-format data storage architecture (JSON, raw, denormalized) to support ETL workflows and improve data accessibility
- Created an **Airflow DAG** for data validation and staging using **DBT**, ensuring data integrity before loading into **Snowflake**

Library Analytics Tool Aug 2024

- Built an end-to-end predictive analytics tool using Python, **SQL**, and Scikit-Learn to forecast library fee delays and analyze reader behavior
- Implemented K-Means clustering to segment readers and generate data-driven recommendations for personalized library services
- Developed a **Flask**-based web app for administrators, providing real-time insights on reader preferences and overdue patterns