

Aditya Jhaveri

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SUMMARY

NYU Tandon Computer Science Graduate student with **2+** years of software engineering experience specializing in AI, Machine Learning, and distributed systems; currently building **SAAS** tools in **JavaScript** for the NYU Admissions department. Scaled distributed data pipelines processing billions of records using **Apache Hadoop**, **Kafka**, and **SpringBoot** microservices, achieving 30-50% performance improvements. Proficient in **Python**, **Java**, **JavaScript**, and cloud technologies with experience in architecting scalable backend solutions and seeking challenges to apply technical expertise in big data processing and system optimization.

SKILLS

- **Languages:** Java, Python, JavaScript, C++, SQL, BASH, HTML5/CSS
- **Frameworks:** SpringBoot, Kafka, Hadoop, Spark, Maven, React, Docker, Git, AWS, GCP, Agile, Next.JS, Express.JS
- **Libraries:** TensorFlow, KERAS, NumPy, Pandas, SciPy, QDRANT, OpenCV, UnSloth, Scikit-Learn
- **Databases & Cloud:** PostgreSQL, MySQL, Google Big Query, MongoDB, JPA Hibernate, Apache Pig/Hive
- **Software & Tools:** Postman API, Thrift, IntelliJ, JUPYTER Notebook, PyCharm, JIRA, Visual Studio Code, QGIS

WORK EXPERIENCE

Software Developer

New York University

02/2025 - Present

New York, USA

- Modernized legacy Apps Script tool to **Next.js** + **MongoDB** using **BMAD**, boosting performance **4x** and enabling **60-second** data sync
- Engineered a **concurrency-safe** form delivery system, leading to a 40% reduction in failure retries and 100% consistency in sent records
- Designed and implemented a **Gmail-like** Rich Text Editor using **HTML**, **CSS**, and **JavaScript**, boosting email template efficiency by 45%
- Built a **GitLab**-style label-based filtering system, optimizing navigation for 2,000+ records
- Enhanced data retrieval speed by 50% in **Google Apps Script** by shifting from service functions to Sheets API on Google Cloud Console
- Architected a PoC to migrate 1,000+ Google Sheets records to **Firestore** + **Google Cloud SQL**, improving scalability and reliability

Software Development Engineer

SAINAPSE

07/2022 - 05/2024

- Optimized file transfer processes in **SpringBoot** microservices by integrating **Apache Kafka**, achieving 50% reduction in time complexity and 33% reduction in space complexity
- Spearheaded implementation of **HDFS** in **Java** for storing 3 billion+ daily records using **Apache Hive** and **Pig**, resulting in 37% improvement in average performance rate across 10+ microservices
- Designed a custom data adapter enabling clients to seamlessly transfer 2B+ rows from **Google Big Query** databases to internal systems
- Accelerated data extraction speed from XLSX and DOCX files (3 GB+) by 30% through strategic implementation of **APRYSE Java SDK**
- Pioneered **Apache Thrift** POC, enabling cross-language model development in 3 programming languages - **Java**, **Python**, and **Scala**
- Mentored 4 university interns on product system architecture, improving team productivity, and knowledge transfer

Data Science Intern

AIDASH

01/2022 - 06/2022

- Investigated LANDSAT classification with **ResNet** models, achieving 60% to 75% accuracy with shallow and deeper models
- Devised a **Python** method for **grassland classification**, ranking 1st amongst peers with 78% accuracy, comparable with **NDVI**
- Coded a Python script to speed up the manual labeling process of satellite images by 80% on **QGIS**
- Leveraged the capabilities of **GEOPANDAS** in Python for CRUD operations on 10K+ shape files in **Postgres** - [Shapefiles CRUD](#)

EDUCATION

NEW YORK UNIVERSITY – TANDON SCHOOL OF ENGINEERING

Master of Science in Computer Science

Brooklyn, New York

09/2024 - 05/2026

Coursework: Algorithms, Big Data, Options Pricing, and Stochastic Calculus, Search Engines, Computer Vision, Algorithmic ML

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI

Bachelor of Engineering in Computer Science; Minor in Data Science

08/2018 - 07/2022

Coursework: Data Mining, Deep Learning, Machine Learning, Natural Language Processing, Artificial Intelligence

PROJECTS

Market Data Service

- Architected a market data microservice pipeline using **FASTAPI**, **Kafka**, **PostgreSQL**, and the **FINNHUB Python SDK** to ingest, publish, and compute 5-point moving averages of real-time stock prices — improved data processing scalability by 40% and reduced average **API** response time by 25%, enabling efficient event-driven analytics for financial decision-making

Artificial Intelligence Project

- Completed 4 advanced AI assignments covering topics like **Information Theory**, **Polynomial Regression**, **Anomaly Detection** (Patch-Core, Efficient-AD, Sim-CLR), similarity search (QDRANT), object detection, and PDDL-based LLM routing via **OPENROUTER API**

Apple Wallet Coupon Generator & Redemption System

- Engineered a **Google App Script** solution generating over 500 Apple Wallet coupons and automating redemption via **PASSKIT API**, boosting operational efficiency by 40% with a responsive **Bootstrap**-based interface

CS-GY 6643 Computer Vision Portfolio

- Built a cross-domain computer vision suite—restoring 17k×11k astronomy plates, fine-tuning **Cell-Pose** for four-class nuclei segmentation, crafting **multimodal** baseball pitch trackers, and training 50-state GeoGuessR classifiers—each with end-to-end data prep and Kaggle-ready outputs