

Atul Kumar

Software Engineer

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WORK EXPERIENCE

Engineering Associate | Full-time

Jan 2025 - Present

Goldman Sachs

Bengaluru, India

- Built an internal AI agent with a RAG pipeline over 40 policy documents using SageMaker-hosted embeddings, deflecting **80%** of travel and expense **support queries** from human agents at **sub-20-second** answer latency.
- Enabled streaming export of **5M+** live records per request at **~50K records/sec**, supporting high-throughput downstream consumers.
- Eliminated daily manual reconciliation across **80 global markets** by creating an automated and manual voucher creation flow.
- Prevented duplicate payments on **\$2M+** in daily invoice volume by constructing an OCR layer that prefills 100% of form fields and a duplicate-detection layer on top.
- Met tier-1 FFIEC 009 regulatory requirements across 12 upstream data sources with a high-performance Apache Spark 3 solution, and cut regulatory report build time by **~75%** via shared Spark libraries.
- Achieved Goldman Sachs' Tech Raise the Bar quality standard by developing an end-to-end integration test suite.

Technologies / Skills Used : AWS, SageMaker, Spring Boot, Amazon Aurora, Microservices, React, Distributed Systems

Engineering Analyst | Full-time

Jun 2022 - Dec 2024

Goldman Sachs

Bengaluru, India

- Cut data processing time by **83%** (12h → 2h) by rearchitecting the pipeline on Apache Spark 3.
- Accelerated monthly data availability by **9 days** by removing legacy dependencies.
- Enabled exact reproduction of any historical calculation across **60 monthly reports**.
- Eliminated manual handoffs in the monthly close cycle by fully automating the end-to-end pipeline.
- Advanced monthly data availability by **17 days** by shifting end-of-cycle batch processing to daily incremental processing.
- Cut data-quality issue resolution from **4-5 days** of manual follow-up to near real-time.

Technologies / Skills Used : Apache Spark, Kafka, Java

Technology Intern | Internship

Jan 2021 - Jun 2021

American Express

Bengaluru, India

- Built an NLP query parser for Amex's ML Studio Logstash using Stanford CoreNLP, mapping plain-English inputs to **5 components** across **12+ templates**.
- Shipped a Python package, Flask API, and React UI packaged as a Docker image for one-click ECP PaaS deployment, with end-to-end translation under **5 seconds**.
- Onboarded ~5 analysts to query Elasticsearch via the UI, cutting query authoring time from ~5 minutes in raw Kibana to under **30 seconds per query**.

Technologies / Skills Used : React, Docker, CoreNLP, Flask

SKILLS

Databases :	Elasticsearch, MongoDB, Snowflake, Sybase IQ
Frameworks / Libraries :	Spring Boot, Flask, ReactJS
Languages :	English, Hindi
Programming Languages :	Java, Python, C++, SQL, JavaScript, TypeScript, Bash
Soft Skills :	Leadership, Teamwork, Problem Solving, Critical Thinking, Collaboration, Communication
Tools / Platforms :	AWS, Terraform, CloudFormation, Docker

EDUCATION

Punjab Engineering College | Chandigarh

Aug 2018 - Jun 2022

B.E., Computer Science and Engineering

CGPA : 8.45 / 10

Springdale Public School | Kurukshetra

Apr 2017 - Mar 2018

Class 12

Percentage : 89.20 %

Springdale Public School | Kurukshetra

Apr 2015 - Mar 2016

Class 10

CGPA : 10 / 10

AWARDS & ACHIEVEMENTS

- Owned multiple regulatory reports end-to-end with full delivery responsibility.
- Organized technical PEC-ACM events at PECfest with **45+** participants across **15 teams**.
- Volunteer researcher on the Indian-Origin Academicians Abroad project under DST.