

# Ankur Rajput

Data Engineer with 6+ years of experience in Banking and Fintech domain. Excelling in Python, SQL, and adept in data modelling & data warehousing, ETL, and databases. Proficiency extends to Spark and AWS. showcasing expertise in designing scalable, robust data pipelines. Enhancing data storage and retrieval efficiency, and ensuring impeccable data quality and integrity. Collaborative communicator with a commitment to continuous learning, staying current with emerging trends in data engineering.



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## WORK EXPERIENCE



### Software Development Specialist Amdocs Development Center India

June 2021 - present

- Developed and integrate a **PySpark**-based next Gen Catalina report generation tool, integrating **Glue, Snowflake, Kafka, and RDS** to process large volumes of batch data. Streamlined data processing resulted in a 30% reduction in report generation time and significantly improved data insights.
- Enhanced System for **Chargeback** for Litle/Worldpay.
- Modernised and Implemented Push 2.0 notification mechanism using **MSK & micro-services** to notify merchant for any billing update.
- Worked on project patented **Retain** technology for re-capturing after transaction failure with a successful rate of 70% retain.
- Integrated new payment provider (PaySafe, Ingenico, Stripe etc.) in as flask Rest APIs with in house tools and processes.
- Designed and developed **BIMS** workflow in the process of migrating from a monolith to a micro-service architecture on **AWS** cloud. This migration led to a 40% reduction in system response times, enhancing overall system performance and scalability while reducing infrastructure costs..
- Added **3DS** support for payment providers, results in almost 80% more payment fraud prevention.
- Conducted multiple knowledge transfer session to team.



### System Engineer Tata Consultancy Services Limited

July 2017 - June 2021

- Utilized an isolation forest algorithm to detect anomalies in vendor ratings based on historical financial data, resulting in the correction of inaccuracies. Transformed data and employed **PCA** to create a 2-D visualization and identified anomalous data points using Plotly..
- Designed and developed a framework to compare multiple data sources, including Micro-services, files, and databases, utilizing **Pandas & Numpy**. This framework successfully reduced data reconciliation time by 50% and improved data accuracy, presenting users with detailed reports highlighting inconsistencies.
- Spearheaded the development of a log parsing and analytics tool using **Django, Python**, and data analysis libraries; facilitated data-driven decision-making for multiple teams, boosting client satisfaction by 28% and achieving significant performance improvements through distributed processing.
- Completed project using **CNN U-Net AI** model for Brain Tumor detection using MRI to aid manual process of tumor detection and showcased to stakeholder.

## SKILLS

- Python, SQL
- Flask, Django
- MySQL, Postgres
- Spark, PySpark, Pandas, Numpy, Snowflake
- AWS - EC2, S3, Lambda, Glue, RDS, MSK, ECR, Redshift
- Dash, Matplotlib
- AWS - Code Pipeline & Deploy, Cloudwatch
- scikit-learn, Tensorflow
- Docker, Elasticsearch, Kafka
- Linux, Shell
- Git, Gitlab, BitBucket

## CERTIFICATION

- Apache Spark 3 - Spark Programming AWS Essentials
- Certified Scrum Master
- CutShort Certified Python - Advanced Machine Learning A-Z
- Python A-Z - Python For Data Science Deep Learning A-Z - Hands on Artificial Intelligence Neural Network
- Professional Java

## PERSONAL PROJECT



### Stock Analysis Tool

Tool to download historical data for tickers and provides analytics abilities to user to perform multiple kind of indicator analysis as well as self built analysis. Tool is able to provide performance of tickers and user's investment through a interactive charts. Tools is built using python, dash, plotly, and yahoo finance apis.



### LinkStore

<http://linkstore.pythonanywhere.com>

User-friendly utility to save and fetch link/urls on the go, utility is designed in django using powerful tools like ORM, Pagination and javascript, Google O-Auth Authentication etc. Users can add and modify links and can directly access them from .application.

### Inditeck Blog



<https://inditeck.wordpress.com>

Blog to share information related to new technology, new big things, technology news etc on wordpress. I like to explore more on technology and write about it, Inditeck is one way to do it.

### Stock Json Parsing



<https://github.com/rajputankur56/parseStockData>  
Json parsing utility to get stock and ticker data from multiple json files, parse and process and dump it into Database, completely configurable setup to update source and target system.

## VOLUNTEER WORK, AWARDS AND INTERESTS

- Excellence Innovation Award by Amdocs
- Awarded for delivering In-house Microservice architecture session for the Amdocs unit.
- 2 times Active Learner by TCS BFSI unit
- Awarded 3 times with On-the-Spot Award
- Star Of The Month
- Awarded for delivering Python Sessions
- Promising trainee in Morgan Stanley(TCS)
- Earned Gold Badge in Python & SQL on HackerRank
- Local Guide for Google Maps

## EDUCATION



### Dr. Bhimrao Ambedkar University Agra Bachelor Of Computer Application

June 2014 - June 2017

Coursework - Operating System(Linux), Data Structure, Databases, C/C++, Java, Networking etc.