

Shivam Mishra

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WORK EXPERIENCE

Rocket Mortgage | Big Data Engineer Intern | Detroit, USA May 2023 - Aug 2023

- Implemented ETL / ELT data pipelines using AWS Glue, and PySpark to automate daily ingestion of terabytes of finance, and sales datasets from sources like Snowflake and Redshift, achieving cost savings of \$10,000.
- Enhanced S3 data monitoring project using Lambda, SQL and PySpark by adding critical logic for monitoring S3 buckets which improved data integrity and reduced the analytics pipeline failure by 11% for Data Science teams.

Ericsson | Data Analyst | Bangalore, IND Jun 2021 - Aug 2022

- Analyzed terabytes of production data using PySpark and SQL identifying errors, trends, and patterns in network reports, resulting in a 12% reduction in data errors.
- Optimized Jenkins pipeline stages for build, test, and deploy in CI/CD processes for open-source projects, including Kube State Metrics, improving product reliability and driving a 16% increase in the user base.
- Engineered Python validation scripts to validate thousands JSON and YAML files uploaded by users, preventing code failures in internal Kubernetes projects and reducing failure rates by 80%.

BlackRock | Data Analyst | Mumbai, IND Jan 2019 - Jun 2021

- Collaborated with Aladdin stakeholders to identify crucial business requirements, developing SQL-based risk management reports and improved operational efficiency by 19%.
- Created Tableau dashboards to visualize real-time compute farm resources, enhancing resource management by 24%.
- Improved Aladdin's data extraction efficiency by optimizing query Plans and crafting efficient SQL queries, resulting in a 18% reduction in query execution time.
- Developed data models and robust schemas for new client onboarding on Aladdin Green Package, improving data collection efficiency and client data management.
- Generated statistical reports to forecast SLA delays and report completion times using Python and R, guided client teams, contributing to savings of \$50,000 by preventing SLA breaches.

PROJECTS

Transparency in Coverage of Insurance Providers | Python, PySpark, Tableau Aug 2022 - May 2023

- Automated extraction and analysis of insurance claims and plans pricing data, from different sources, processing over 10TB datasets using Python and PySpark and Reduced data availability time from 5 days to 1 day.
- Gathered requirements from researchers to create informative Tableau Dashboards on insurance plan pricing data, presented key metrics contributing to research goals.

Stocks Recommendation System | Neural Networks, Natural Language Processing [[GitHub](#)] Aug 2023 - Dec 2023

- Developed an RNN-based stock recommendation system to predict stock prices and assist users in making better investment decisions to improve investment portfolio.
- Incorporated VADER analysis to analyze over 50,000 market news sentiments alongside prices for informed decisions. Integrated visualizations into web applications for enhanced user experience.

Creative Arts For Veterans | Python, Tableau, Hive, Qualtrics Sep 2023 - Mar 2024

- As part of Center for Rural Engagement, worked on designing Qualtrics Surveys for CAV books for veterans.
- Utilized Python and Tableau to analyze Veterans feedback data from Qualtrics Survey and MS Excel, demonstrating the positive impact of the CAV book on veterans' lives, resulting in securing a \$60,000 grant.

EDUCATION

Indiana University Bloomington Aug 2022 - May 2024

Master of Science In Data Science | GPA: 3.7 / 4

Coursework: Data Mining, Advance databases , Applied Algorithms, Statistics, Deep Learning Systems, Machine Learning

SKILLS

- Programming Languages:** C, C++, Python, SQL, R, SAS, Perl, Java, JavaScript, HTML , Bash
- Databases:** Sybase, Oracle, Microsoft SQL Server, PostgreSQL, MongoDB, Neo4
- Business Intelligence:** Tableau, Power BI, MS Excel, Grafana, Databricks
- Cloud Platforms :** AWS (S3, Glue ETL, Lambda, Athena), Azure (DevOps), Snowflake, GCP (BigQuery)
- ETL Tools & ML:** Hadoop, PySpark, Pandas, Kafka, Kubernetes, Docker, Scikit-learn, MLlib, PyTorch

ACHIEVEMENTS

- Achieved finalist team status in Grant Thornton Idea Business Case Competition, awarded \$1000 prize.
- Secured the best project award out of 500+ university projects for pioneering smart farming with IoT.