Shreya Banik

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EXPERIENCE

Cognizant Technology Solution
Programmer Analyst

Kolkata, India
Oct 2021 – Jul 2023, Full-time

- Conducted in-depth research on insurance data by utilizing Monthly Service Review (MSR) and analyzing Monthly Metrics.
- Implemented an automatic reconciliation tool using MySQL Workbench and MS-Excel to track 400K+ daily transactions from ServiceNow, resulting in a 78% reduction in resource efforts.
- Applied SQL queries for data manipulation to uncover key-patterns, resulting in a 30% improvement in reporting accuracy.
- Identified and reduced defects by 8X, showcasing effective problem-solving skills and process improvement.
- Documented policy and claims-related large datasets, providing meaningful and complex insights to both technical and non-technical stakeholders.

CBNITS Private Limited
Data Analyst

Kolkata, India
April 2021 – September 2021, Intern

- Analyzed large-datasets of Crypto-currency exchange in the application to derive key-insights and connected data sources, MYSQL database, DB2 data-warehouse, and Google Cloud for data storage.
- Performed end-to-end research to inform AI-driven decision-making processes to enhance overall project outcomes and introduced latest classes in app-development to bring improved flexibility and functionality of the application by 68%.
- Teamed up with cross-functional teams to resolve problems in the application by maintaining Excel reports and adding innovative changes in the product.

EDUCATION

University Of New Haven
MS in Data Science; GPA: 3.8/4.00

West Haven, CT
Aug 2023 – May 2025

- Relevant Coursework: Data Science, Artificial Intelligence, Machine Learning, Distributed and Scalable Data Engineering, Computer Vision, Deep Learning, Natural Language Processing, Bayesian Data Analysis

Hooghly Engineering & Technology College
B.Tech in Electronics and Communication and Engineering; GPA: 3.5/4 (CGPA: 8.41/10.00)

Kolkata, India
Aug 2017 – May 2021

- Relevant Coursework: Data Structures & C, Object Oriented Programming, Database Management System, Computer Networks, Information Theory, Mathematics, Wireless Communication and Radar Engineering

PROJECTS

CreditWise: Predicting Credit Card Approvals with Machine Learning | *Github*
- Developed a Random Forest Classifier-based system on AWS using Spark/PySpark for credit card approval prediction, managed end-to-end ETL pipelines with Spark SQL, conducted model training, achieved an ROC of 0.878 and accuracy of 87%, and integrated AWS S3 for scalable storage and retrieval of outputs, ensuring robust data management.

Statistical Analysis on Accidental Drug Deaths in Connecticut | *Github*
- Performed Quantitative Analysis on 51.3K entries in real-time large dataset retrieved from DATA.GOV , using Python key-libraries to reveal trends in drug-related deaths in Connecticut between 2012 & 2022, employed advanced statistical techniques, EDA analysis, feature engineering and data visualizations.

Retail Sales Analytics Dynamic Dashboard using Tableau | *Tableau*
- Designed and implemented a dynamic Tableau dashboard for retail business forecasting, including data extraction and data cleaning from Kaggle, ad-hoc analysis to identify key patterns and trends, and monitoring KPIs to boost sales performance.

CERTIFICATIONS

Machine Learning Pipelines with Azure ML Studio (Feb 2024) : Developed an adult income prediction system on Azure ML Studio, achieving 94.4% accuracy and deploying a boosted decision tree model with an AUC of 0.986 as a web service for inference.

Neural Networks and Deep Learning (Jan 2024) : Learned the fundamentals of neural networks and deep learning, implementing efficient CNN, identifying key-parameters in network architecture, and applying deep learning techniques to real-world applications.

IBM SPSS Statistics Essential Training (Nov 2023) : Worked with SPSS Statistics to analyze data effectively and crafted visualizations to extract meaningful insights, enhancing data-driven decision-making abilities.

SKILLS

Languages: Python, R, SQL, MATLAB, Bash, JavaScript, TypeScript
Libraries: Pandas, Numpy, MatplotLib, scikit-learn, TensorFlow, Keras, OpenCV
Technologies: Flask, SQL Server, MongoDB, MS-Excel, Tableau, Power-BI, Snowflake, Apache Airflow, AWS, Azure
Methodologies: ETL, Agile, Scrum, OOP, Functional Programming, DevOps, CI/CD