

Subhranil Das

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Education

Indiana University, Bloomington

August 2022 – May 2024

Master of Science in Data Science

Relevant Coursework: Data Mining, Statistics, Deep Learning, Machine Learning, Database Concepts, Data Visualization, Applied Algorithms, Artificial Intelligence, Big Data Applications and Database Design.

Future Institute of Engineering and Management, Kolkata

August 2017 – June 2021

Bachelor of Technology in Applied Electronics and Instrumentation Engineering

Technical Skills

Programming/Scripting: Python, SQL, R, Java, C, C++

Databases: MySQL, PostgreSQL, MongoDB, Cassandra, Snowflake, NoSQL, PL/SQL, AWS Redshift, Spark/SQL, SSMS

Frameworks: Spark, PyTorch, TensorFlow, Keras, Django, Flask (RestAPI)

Data Management and Analytics tools: dBT, Apache Airflow, Power BI, Tableau, Excel, Google Analytics

CI/CD and DevOps: Kubernetes, Docker, Linux, JIRA, Git, GitLab, Jenkins, Bitbucket

Cloud Platforms: Microsoft Azure (Blob Storage, Functions, Data Factory, Databricks, Event Hubs, Synapse Analytics, Data Lake), AWS (S3, Glue, Kinesis, EMR, Athena, Lambda), Google Cloud Platform (Bucket, BigQuery)

Work Experience

O'Neill School of Public and Environmental Affairs, Indiana University

March 2024 – Present

Data Engineer

Bloomington, IN

- Collaborated with cross-functional teams to preprocess datasets using **Apache Spark**, increasing data accuracy by 20%
- Designed and implemented data pipelines with **Azure Databricks** and **Airflow**, optimizing data processing time by 15%
- Developed scalable data storage and retrieval solutions with **Azure SQL Database**, enhancing infrastructure efficiency.

eGain Corporation

September 2021 – July 2022

Solution Success Engineer

Pune, India

- Investigated and resolved 100+ data pipeline issues using **Azure Log Analytics** and **Azure Functions**
- Collaborated with the engineering team to identify and fix bugs in ETL processes
- Analyzed data pipeline failures with **Apache Airflow**, implementing enhancements that reduced DAGs' errors by 30%
- Led cross-functional teams during data outages, utilizing **Azure Data Lake** and **Databricks**, reducing downtime by 30%
- Automated data monitoring and alerting using **Azure Monitor**, leading to a 25% decrease in issue resolution time
- Developed and optimized SQL queries for data extraction and reporting, improving query performance by 40%
- Created comprehensive documentation and training articles for pipeline processes, enhancing team knowledge

eGain Corporation

June 2021 – August 2021

Data Engineer Intern

Pune, India

- Implemented debugging strategies for **Azure Data Factory** pipelines using **Azure Monitor**, decreasing bug resolution time
- Collaborated with cross-functional teams on 20+ projects, gaining insights into the product cycle and support processes
- Supported data infrastructure on **Azure** and **J2EE** platforms, managing servers and applications effectively

Projects

Generative AI for Pathology Datasets | Python, Tensorflow, Scikit-learn, Keras, OpenCV, GANs

[\[Link \]](#)

- Directed a project focused on **Generative AI for Pathology Datasets**, specializing in applying Generative Adversarial Networks (GANs) for **nuclear detection in medical imaging**
- Overcame **HIPAA-related data** access restrictions to **create synthetic datasets** for nuclei detection model training
- Utilized advanced **GAN architectures** such as DCGAN, Variational Autoencoders, and StyleGAN3 to enhance model performance by 40%
- Trained a **YOLOv8** nuclei detection architecture, achieving an **accuracy of 85%** in **nuclei detection models**

Turbocharge Retail Insights | Python, Apache Airflow, dBT, Soda, Docker, GCP, Big Query, Metabase

[\[Link \]](#)

- Led the development of a comprehensive **Apache Airflow ETL pipeline** integrating **GCP Bucket**, **BigQuery**, **Soda**, and **dbt**, achieving 25% enhancement in process efficiency
- Optimized over 20 **SQL scripts** and **dbt** models, and implemented automated testing procedures (**DAGs**) for **financial data ingestion**, quality checks, and transformations, significantly improving data quality
- Developed a **real-time dashboard** in **Metabase** for data visualization to enhance **reporting and analysis** capabilities, providing actionable insights to stakeholders