

# Subhranil Das

812-671-5394 | [dassubhranil1998@gmail.com](mailto:dassubhranil1998@gmail.com) | [linkedin.com/in/subhranil-das](https://www.linkedin.com/in/subhranil-das)

## 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