

Hrishikesh Handique

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PROFESSIONAL SUMMARY

AI and Data Engineer with over 3 years of experience building scalable data pipelines, optimizing cloud infrastructure, and delivering end-to-end machine learning solutions. Skilled in PySpark, AWS, Python, and SQL, with a strong foundation in data modeling, ETL workflows, and production-ready ML applications. Adept at working across cross-functional teams and delivering solutions that improve efficiency, performance, and decision-making.

TECHNICAL SKILLS

Languages: Python, Java, SQL

Data Analysis: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, SciPy, Statsmodels

Machine Learning & AI: TensorFlow, Keras, NLP, YOLO, ByteTrack

Big Data: Spark, PySpark, Hadoop

ETL Tools: AWS Glue, AWS Data Pipeline, AWS Batch

Cloud Platform: AWS (S3, Redshift, Lambda, IAM, Athena, CloudWatch)

Version Control: Git

EXPERIENCE

Data Engineer | Edureka

Mar 2020 – July 2023 | Bangalore, India

- Built scalable ETL pipelines using PySpark and AWS Glue, processing over hundreds of gigabytes of client interaction data to support analytics and reporting.
- Implemented data quality checks, schema validation, and transformation logic to ensure robustness and accuracy.
- Scheduled and orchestrated workflows using Glue and Step Functions with 99.8% reliability.
- Developed Kafka-Spark streaming pipelines for real-time ingestion of learner interactions, reducing latency.
- Led cloud migration efforts by transitioning legacy reporting infrastructure to AWS, improving performance by 40%.
- Translated legacy SQL queries into modular PySpark code, integrated with Redshift and Athena.
- Authored documentation for PySpark development and Glue job error handling, reducing time significantly.
- Worked cross-functionally with product, BI, and training teams to deliver accurate analytics and data insights.

Data Engineer | Intern IP Infusion

May 2019 – Nov 2019 | Bangalore, India

- Developed Python automation scripts to streamline data collection from network monitoring tools.
 - Built Spark jobs for analyzing log data in real-time and visualized patterns to assist dev teams.
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EDUCATION

The University of Manchester — *MSc Advanced Computer Science*

Sep 2023 – Sep 2024

Vellore Institute of Technology (VIT) — *B.Tech in Computer Science*

Jul 2015 – Apr 2019

PROJECTS

Player Performance Analysis

- Built an automated sports analytics system using YOLOv8 and ByteTrack to track players, ball, and referees in 1080p match footage
- Engineered modules for team classification, player-ball interaction, possession logic, and trajectory analysis
- Translated pixel coordinates into real-world distances to compute speed and distance in km/h and meters
- Tuned system for real-time performance with annotated output and robustness against occlusion and ID switching

Cloud Pipeline Simulation

- Built an ETL pipeline using AWS Glue, S3, and Redshift to process and transform simulated e-commerce data
- Configured IAM roles, scheduled jobs, and queried datasets using Athena for analytics delivery