

Sai Harshitha Mutyala

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SUMMARY

AWS 2x Certified Professional (Machine Learning Specialty & Data Engineer – Associate) with 3+ years of experience as a Data Analyst and Data Scientist, specializing in data-driven decision-making and machine learning solutions. Skilled in Python, SQL, AWS, and advanced analytics. Currently serving as an External Lecturer at Hochschule Fresenius, teaching Artificial Intelligence, Machine Learning, and Deep Learning. Proven ability to transform complex data into actionable insights and optimize workflows through automation and AI.

EXPERIENCE

External Lecturer

Hochschule Fresenius.

09/2025 - Present, Berlin, Germany

- Teaching postgraduate courses in Artificial Intelligence, Machine Learning, and Deep Learning, emphasizing both theoretical foundations and practical applications.
- Designed and delivered curriculum materials, assignments, and hands-on labs focused on AI model development and deployment.
- Mentored students on academic research and real-world projects involving neural networks, data preprocessing, and model optimization.

Tech Stack: Python | TensorFlow | PyTorch | Scikit-learn | AWS | Jupyter | Pandas | NumPy | Deep Learning | Machine Learning | AI Model Deployment

Logistic Analyst

Mimeo GmbH.

03/2025 - 08/2025, Berlin, Germany

- Developed and maintained real-time dashboards to track shipping KPIs and warehouse efficiency, enhancing data-driven decision-making.
- Collaborated with procurement, warehouse, and customer service teams to streamline fulfillment workflows and reduce operational costs.
- Led automation initiatives in shipment tracking and logistics reporting, improving data accuracy and reducing manual workload.

Tech Stack: SQL | Excel | Python | Tableau | ERP Systems | Logistics Automation | KPI

Data Scientist

Corning Inc.

01/2022 - 02/2024, Berlin, Germany

- Designed and maintained scalable ETL data pipelines using Python, SQL, and Airflow, ensuring high data quality and reliability.
- Developed and deployed machine learning models for anomaly detection and process optimization, boosting product performance by 20%.
- Created dynamic dashboards in Looker and Big Query to visualize model insights and KPIs, enabling self-serve analytics for stakeholders.

Tech Stack: Python | SQL | Airflow | Big Query | Looker | ETL | Machine Learning | Data Quality | Data Modeling | Predictive Analytics | Data Visualization | Statistical Analysis

Data Analyst

Sport1 GmbH.

06/2021 - 12/2021, Ismaning, Germany

- Collaborated with cross-functional teams to define KPIs and deliver real-time dashboards, enabling data-driven decision-making across departments.
- Extracted, transformed, and analyzed data using SQL and Python to generate actionable insights and optimize operational efficiency.
- Improved monitoring and data quality processes, increasing visibility and reliability of analytics workflows.

Tech Stack: Python | SQL | JavaScript | ETL | Data Visualization | KPI Reporting | Jira | CI/CD | Data Integration

EDUCATION

M.Sc. Artificial Intelligence & Big-Data

SRH Berlin University • Berlin, Germany • 2023

- Machine Learning, Predictive Modeling, Heuristic and Exact Optimization, Strategic Technology Management, Mathematics and Statistics

Bachelors of Electronics and Communication Engineering

Bharath University • 2018

- Linear Integrated Circuits, Microprocessor, Microcontrollers, Communication Engineering, Data Communication, Computer Programming

TECHNICAL SKILLS

- Programming Languages:** Python (TensorFlow, PyTorch, OpenCV, Pandas), R, SQL, JavaScript, HTML, CSS, React.js, jQuery, AJAX, DAX
- Data Engineering:** ETL, Data Warehousing, Airflow, dbt, Trend Detection, Data Integration
- Cloud Platforms:** AWS Glue, Redshift, S3, DynamoDB, Lambda, Athena, Big Query, Azure Databricks, Azure Data Factory
- DevOps & CI/CD:** Kubernetes, Docker, Terraform, CI/CD Pipelines
- Data Science:** Exploratory and Correlational Analysis, Statistical Modeling, Scikit-learn, Random Forest Regressor
- Visualization:** Tableau, Power BI, Data Studio
- Operating Systems:** Linux (Log analysis, configuration optimization), Windows.
- Other Tools:** Jira, GitHub, MS Office, ServiceNow, Agile Methodologies, Slack, Microsoft Teams
- Soft Skills:** Technology Management, Analytical Thinking, Problem Solving, Communication, Team Collaboration, Adaptability

PROJECTS

Predicting Quality Data Metrics from Quality Data at (Corning - Strykow Cable Plant), Master Thesis – Berlin

- Investigated rising Data Attenuation in cable quality data, identifying causes such as Measurement Errors, Data loss Interpolation, Sampling frequency, Sensor Accuracy, and Calibration.
- Utilized Integrated GPS tracking for pinpointing leakage locations, facilitating quick response and reducing equipment downtime.
- Contributed to the field of data analysis and quality management by studying Data Attenuation's implications on cable quality parameters, highlighting the importance of accurate decision-making in industries.

Automatic Current Leakage Detection and Location tracking in Farming Fields at University, Bachelor Thesis

- Developed an IoT-based system for automatic current leakage detection in farming fields, enhancing electrical safety and equipment protection.
- Integrated GPS tracking for pinpointing leakage locations, facilitating quick response and reducing equipment downtime.
- Performed Improved farming field safety and operational efficiency, potentially saving costs associated with equipment repair and downtime.

Artificial Intelligence Ethics – Research Project

- Conducted an in-depth research on Artificial Intelligence Ethics, exploring ethical challenges and considerations in AI development, deployment, and impact on society.
- Analyzed the ethical implications of AI technologies, including bias in algorithms, privacy concerns, and the potential social and economic consequences, demonstrating a deep understanding of ethical issues in the field of AI.
- Produced valuable insights and recommendations for ethical AI practices, emphasizing the importance of responsible AI development and its societal implications, contributing to the ethical discourse in the AI community.

CERTIFICATIONS

AWS Certified Data Engineer – Associate

Amazon

AWS Certified Machine Learning Engineer – Specialty

Amazon

Data Analytics Job Simulation certified

Forage

Virtualization, Docker, and Kubernetes for Data Engineering

Coursera

SQL for Data Engineering Beginner to Advanced

LinkedIn