

PROFILE SUMMARY

Data Scientist & Data Engineer with 4+ years of experience designing and deploying data-driven solutions, building scalable ETL pipelines, and implementing machine learning models. Proficient in Python, SQL, Spark, cloud-native platforms (AWS, Azure), and data visualization tools. Experienced in predictive modeling, real-time analytics, and integrating ML pipelines into production systems. Passionate about turning complex datasets into actionable insights.

EDUCATION

Rowan University, Glassboro, NJ Master of Science in Data Science 3.5 GPA	August 2023 - May 2025
Bharath institute of higher education and research, Chennai, Tamilnadu Bachelor of Technology in Computer Science and Engineering 3.8 GPA	August 2017 - May 2021

TECHNICAL SKILLS

- Programming & Analytics:** Python, R, SQL, C#, PySpark, NumPy, Pandas.
- Machine Learning & AI:** TensorFlow, Keras, PyTorch, Scikit-learn, CNN, Graph Neural Networks.
- Data Engineering & Cloud:** Spark, Hadoop, Kafka, ETL, AWS (S3, EC2, Lambda, Glue, Kinesis), Azure, Docker, CI/CD.
- Visualization:** Tableau, Power BI, D3.js, Matplotlib, Seaborn.
- Databases:** MySQL, PostgreSQL, MongoDB, Redis, Neo4j.
- Other Tools:** Git, Linux, Windows, VS Code, Agile.

PROFESSIONAL EXPERIENCE

Software Engineer Trainee Quanti, Philadelphia, USA	June 2025 - Present
<ul style="list-style-type: none">Develop an integrated content and ad management platform using Vue.js, FastAPI, and PostgreSQL, enabling seamless posting to multiple social media platforms.Develop and optimized RESTful APIs for seamless integration with LinkedIn, X, TikTok, and other social media channels, enabling automated ingestion and processing of content metadata and performance metrics.Integrated AI-based content recommendation and optimization modules, leveraging NLP and ML algorithms to enhance user engagement, increasing content interaction metrics by 40%.Designed and implemented ETL pipelines for scheduling, processing, and storing high-volume content and ad datasets, ensuring consistency, reliability, and analytics-ready formats.Collaborate with product and marketing teams to deliver features on time, using Agile methodologies and CI/CD pipelines for faster releases.	

Software Engineer

Tata Elxsi, Bengaluru, India	August 2020 - August 2023
<ul style="list-style-type: none">Designed and optimized scalable ETL pipelines and real-time data streaming solutions (Kafka, AWS Kinesis), improving data processing efficiency by 30%.Developed and deployed RESTful APIs and microservices for internal data platforms, increasing accessibility and usability of business data by 25%.Engineered predictive maintenance solutions using IoT sensor data, resulting in 20% reduction in system downtime.Deployed containerized data applications using Docker, ensuring scalable and reproducible analytics environments in production.	

Software Developer Intern

Sutherland, Tamilnadu, India	July 2019 - May 2020
<ul style="list-style-type: none">Built automation scripts in Python/Excel macros to streamline customer support processes, reducing handling time by 20%..Assisted in building dashboards and visualizations to monitor customer interactions and service efficiency.Participated in debugging, feature enhancements, and data validation tasks, gaining hands-on experience with SQL and Python analytics workflows.Documented and streamlined data pipelines and reporting processes for internal teams, enhancing accessibility and usability of business intelligence reports.Applied data-driven insights to identify bottlenecks and optimize customer support processes, improving overall operational efficiency.	

PROJECTS

Early Prediction of Alzheimer's Disease Python, TensorFlow, Flask API, Keras, CNN	January 2019 - April 2019
<ul style="list-style-type: none">Built and trained a CNN model on MRI datasets to detect early-stage Alzheimer's, achieving 85% prediction accuracy.Designed a Flask-based REST API for real-time model inference, enabling integration into clinical decision workflows.Implemented data preprocessing pipelines including normalization, augmentation, and cleaning to improve model performance.Containerized the solution with Docker for scalable deployment and reproducibility in different environments.Added robust logging, error handling, and input validation, ensuring production-readiness and reliable predictions in real-world scenarios.	
VAST Challenge MC3 Apache Spark, Hadoop, Graph Neural Networks, Tableau, D3.js	September 2023 - November 2023
<ul style="list-style-type: none">Analyzed and processed large-scale datasets (10+ GB structured/unstructured data) using Apache Spark and Hadoop, significantly enhancing data management efficiency.Implemented a Graph Neural Network (GNN) service to uncover hidden relationships, boosting insight accuracy by 35%.Deployed interactive dashboards with Tableau and D3.js to provide scalable, real-time analytics to end users.Optimized data validation, cleansing, and feature engineering pipelines, ensuring high-quality input for analytics and ML models.Designed modular, reusable code to support large-scale data processing workflows and accelerate future analytics projects.	
NFL Running Back Performance Prediction Web Scraping, Python, FastAPI, Power BI	September 2024 - November 2024
<ul style="list-style-type: none">Collected and analyzed NFL performance datasets (40+ variables) from web sources (NFL, PFF) using Python web scraping techniques, improving dataset quality and completeness.Built predictive models (Random Forest, Linear Regression) to forecast player performance and exposed results via FastAPI endpoints.Designed an interactive, real-time dashboards using Power BI, resulting in a 25% improvement in strategic decision-making for teams, scouts, and fantasy football users.Implemented data validation, error handling, and automated reporting pipelines, ensuring reliable and actionable predictions.Optimized backend and ML pipelines for low-latency API responses and scalable processing of large datasets.	