

NEETHI THEVAN THANGIAH

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PROFESSIONAL EXPERIENCE

- Machine Learning Engineer, Enlitic Inc, Fort Collins, USA** Jun 2023 - Jan 2025
- Designed and optimized data pipelines using AWS services like Lambda, EMR, and Glue Jobs, improving scalability by 5x and reducing costs by 30%.
 - Orchestrated a terraform driven AWS ETL pipeline development system resulting in 60% decrease in development time while ensuring data security and scalability.
 - Engineered a CloudWatch-based logging framework to monitor machine learning model performance.
 - Collaborated with data scientists to develop an internal dataset management suite, coordinating across teams to ensure seamless integration and adoption of the solution.
 - Partnered with data scientists and analysts to provision and optimize AWS services tailored to specific project requirements, fostering collaboration in an Agile environment.
- Data Science Intern, Enlitic Inc, Fort Collins, USA** June 2022 - May 2023
- Led and developed an automated machine learning model validation report generation system.
 - Leveraged GitHub (CI/CD) actions and AWS resources to automate the process on every new model build and publish the report to the Confluence portal and mail the concerned parties.
 - Developed a web application to analyze medical DICOM images, leveraging a machine learning model capable of detecting 23 different anomalies and visualizing inferences as heatmaps, enhancing diagnostic accuracy and usability for healthcare professionals.
 - Hosted the web app in AWS using services like S3, EC2, ELB, DynamoDB, EBS and built the website for fault tolerance and scalability.
 - Applied healthcare technology standards, including HIPAA, HL7, DICOM, ISO/IEC 27001, GDPR to ensure compliance with medical data regulations.
- Machine Learning Intern, FELLOWSHIP.AI, Boulder, USA** Jan 2022 - Apr 2022
- Led team of five to develop pose detection algorithm to analyze videos. Built a classification model to identify the type of workout a person is doing in video with test accuracy of 91% and a F1 score of 87%.
 - Collected and manually annotated more than 8 hours of videos and converted them data points of 1.5 M.
 - Tackled the imbalance in data, model overfitting issue and harnessed the use XGBoost and LSTM models.
 - Custom trained Image Segmentation model identify the type and condition of flooring, roof and for the presence of solar panel with 90% accuracy.

TECHNICAL SKILLS

Big Data Frameworks: Apache Spark, Apache Kafka, Apache Flink, MapReduce, Trino
Data Orchestration & Workflow: Apache Airflow, AWS Step Functions, Dagster
Data Storage & Processing: MongoDB, Cassandra, AWS S3, Redshift, Snowflake, Apache Iceberg
Programming & Scripting: Python, R, Scala, SQL, Shell Scripting
Cloud Technologies: AWS (EMR, Glue, Lambda, Redshift, S3, Athena, IAM, ECS)
Data Visualization: Power BI, AWS QuickSight
DevOps Tools: GitHub CI/CD, Docker, Kubernetes, Terraform, Jenkins
Machine Learning Tools: TensorFlow, PyTorch, Keras, Hugging Face Transformers, Google AutoML
Other Tools: ELK Stack (Elasticsearch, Logstash, Kibana), dbt, Presto, gRPC, REST API
Key Competencies: Data Modeling, ETL/ELT Development, Real-Time Data Streaming, Distributed Systems

EDUCATION

M.S. in Data Science, University of Colorado Boulder, USA Aug 2021 - May 2023
B.E in Mechanical Engineering, Amrita Vishwa Vidyapeetham, Bangalore, India Jun 2016 - May 2020

TECHNICAL PROJECT

- Dynamic ETL Workflow for Reddit Data**
- Deployed a scalable data pipeline to extract Reddit API data for real-time analytics and reporting.
 - Orchestrated ETL workflows using Apache Airflow and Celery, ensuring efficient task distribution.
 - Integrated Amazon S3 for raw data storage and AWS Glue for automated cataloging and transformation.
 - Utilized AWS Glue for data transformations and Redshift for creating a high-performance data warehouse.

CERTIFICATIONS

- AWS Certified Data Engineer
- AWS Certified Cloud Practitioner
- IBM Data Science Professional Certificate