**VIGNESH TALLAM**

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**SUMMARY**

Data Science graduate student with a combined experience of 2 years in Data Science and Cloud operations. Project experience includes applications of machine learning and large language models. Seeking internship/full-time position immediately in Data Science, Machine learning and Cloud domain.

**EDUCATION**

**MS in Data Science, Analytics and Engineering** Graduating May 2026

Arizona State University, Tempe, AZ

**Relevant Coursework:** Time series Forecasting, Statistics for Data Analysts, Data Mining, Analyzing Big Data

**TECHNICAL SKILLS**

**Programming:** Python

**Data Analysis and Statistics:** JMP, Pandas, NumPy, Pandas, Statsmodel

**Machine Learning:** Scikit-learn, PyTorch, LangChain

**Business Intelligence Tools:** AWS Quicksight, Tableau, Matplotlib, Seaborn, Plotly

**Big Data Frameworks**: Hadoop, AWS ECR, PySpark

**Certifications:** Associate Cloud Engineer Google Cloud – December 2023, Microsoft Technical Associate: Programming using Python – Certified 2019, Microsoft Certified: Azure Fundamentals – Certified 2020

**PROFESSIONAL EXPERIENCE**

**ThriveWell Tech, Frederick, MD: Data Scientist**  Jan2024 – Present

* Developed a fall prediction architecture based of historical Electronic Medical records of residents collected over a decade achieving an accuracy of **87.9%** in predicting risk level for elderly residents across Skilled nursing and Assisted Living facilities. (SQL server 2014, AWS Redshift)
* Deployed the model in an AWS environment, automating real-time predictions and generating interactive risk reports allowing nurses to take necessary interventions preventing **40 falls** from occurring. (AWS Lambda, S3)
* Designed an interactive dashboard for healthcare professionals to visualize predictions, providing a feature of explainability and analytics to enable preventative interventions on the residents at a high-risk. (AWS Quicksight)

**Persistent Systems, Bangalore, KA: Technical Cloud Engineer** Nov 2022 – Dec 2023

* Designed and managed a secure AWS infrastructure for a social media analytics platform, deploying **EC2 instances**, configuring **IAM roles**, and setting up **VPCs**, ensuring the ingestion of over **500 million daily posts** with **99.99% uptime**. (AWS cloud)
* Collaborated with clients to troubleshoot access issues and improve system performance, reducing average resolution time by **30%** through automated monitoring with **CloudWatch**, significantly enhancing customer satisfaction. (ITIL, AWS Cloud Watch)

**Ambee, Bangalore, KA: Data Science Intern** Jan 2022 – Sept 2022

* Developed Python Scripts to automate quality tests performed to compare Ambee’s Air Quality API against existing competitor API’s, reducing Quality Assurance time by 15 hours per week. (Python, Postman)
* Worked on optimizing the air quality pipeline to handle disruption from source outages (station or satellite relay), ensuring continuous data flow and improving system reliability. (Pandas, Matplotlib, Boto3)

**ACADEMIC AND PERSONAL PROJECTS**

**Healthcare Press Release article generator** April 2024-October 2025

* Developed an AI powered Health article generator designed for medical experts to use without the need for journalist expertise allowing users to create personalized health articles based on user input. The platform integrates with Ollama’s base model for natural language processing and Qdrant vector database for knowledge storage and similarity search. (TaiPy, LangChain, FastAPI)

**NBA season points forecast**  Fall 2024 – Spring 2025

Collaborated in a team of three to build a time series forecast of total points that would be scored in the upcoming NBA season (JMP):

* Scraped and aggregated data from NBA sources, performed analysis and built a model to predict the total points that could be scored in the NBA 2025 season based on historical data from past seasons and identifying key independent variables. (Python, JMP) **GitHub:**
* Recognized by faculty audience as “Best Analysis” out of 22 teams