

SRAVYA VUJJINI

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EXPERIENCE

AMAZON, Hyderabad, India

Jan 2020 - Nov 2020

Machine Learning Data Associate

- Improved Amazon Go Store's 'Just Walk Out' technology by training AI model using large-scale product interaction, transaction data.
- Implemented data augmentation and computer vision techniques to enrich the training dataset, enhancing the model's precision in detecting and interpreting diverse product interactions within Amazon Go Stores.
- Employed statistical methods and established a real-time monitoring system for prompt detection of potential drifts in the model.
- Conducted data annotation with Amazon SageMaker on image and video frame data to enhance product identification technology, specifically for spatial object position estimation.

AMAZON, Hyderabad, India

Jul 2017 - Dec 2019

Digital and Device Alexa Support Associate

- Conducted dialogue evaluation using speech and text data to train the Alexa assistant, systematically assessing and refining its performance in conventional contexts.
- Performed a comprehensive analysis of user interactions with Alexa, leveraging registered devices to glean meaningful insights and identify opportunities for improvement in real-world usage scenarios.
- Collaborated with Machine Learning teams to offer insights from user feedback on incorrect responses utilizing Power BI to create compelling data visualizations significantly enhancing Alexa's speech recognition and language understanding capabilities.

ACADEMIC EXPERIENCE

INDIANA UNIVERSITY, Bloomington

Aug 2023 - Dec 2023

Teaching Assistant, Luddy School of Informatics and Computing

- Mentoring students in the development of 3D models with a primary focus on fundamental concepts including topology, UV coordinates, and non-destructive mesh editing.

EDUCATION

Indiana University, Bloomington

Aug 2022 - Dec 2023

Master of Science in Data Science (GPA: 3.93/4.0)

Rbvrr Women's College, India

June 2013 - May 2016

Bachelor of Science in Computer Science (GPA: 9.5/10.0)

TECHNICAL SKILLS

Machine Learning	Regression, Classification, PCA, Decision Trees, SVM, KNN, Ensemble Modelling
Deep Learning	CNN Architectures, Transformer models, LLMs, Semantic Search Engine, Image classification
Data Analysis	Exploratory Data Analysis, Inferential Statistics, Scientific Visualization, Predictive Modelling
Libraries	TensorFlow, PyTorch, OpenCV, scikit-learn, Pandas, NumPy, SciPy, Matplotlib, Seaborn, ggplot2
Languages	Python, R, C#, SQL, Postgre SQL, MongoDB, Neo4j, Flask, HTML, CSS
Other	3D modelling, Blender, Unity, ParaView, Microsoft Power Automate

KEY PROJECTS

LLM - Detect AI Generated Text, Kaggle Competition

[\(Link\)](#)

- Developed a machine learning model to distinguish between student-written essays and those generated by Large Language Models.
- **Skills:** Machine Learning, Deep Learning, NLP, Python, Data Preprocessing, EDA, Model Development and Evaluation

Implementation of an Efficient Vision Transformer

[\(Link\)](#)

- Optimized Vision Transformer in PyTorch, drastically reducing encoder block parameters by 97%, from the original 86M to 2.6M decreasing the computational load and leading to faster model training
- **Skills:** PyTorch, Python, Computer Vision, GitHub Collaboration, Model Evaluation, Data Preprocessing, Jupyter Notebook

Trilingual Sign Language Translator

[\(Link\)](#)

- Developed a trilingual sign language translator capable of converting communications from one sign language into written text and other sign language gestures with the help of Convolutional neural networks.
- **Skills:** Tensorflow, Python, CNN, GitHub Collaboration, Model Development and Evaluation

Airbnb Price Prediction

[\(Link\)](#)

- Implemented a Machine Learning Model to predict the prices of Airbnb listings in Asheville, NC using statistical methods, data visualization, Exploratory Data Analysis to identify trends.
- **Skills:** R, Exploratory Data Analysis, Predictive Modelling, Statistical Methods, Machine Learning

Mentoring and Matching Analysis Program, IU Foundation

- Automated the manual process of IU Foundation's mentoring program and implement a pairing system for mentors and mentees, incorporating machine learning models to optimize match compatibility.
- **Skills:** Microsoft Power Apps, Power Automate, Excel, Machine Learning, Python, Jupyter Notebook