Alvita Yathati, MS

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Data Analyst Data Scientist Business Data Analyst

Education

UNIVERSITY OF MICHIGAN **Jan. 2023 – Present**
Master of Science Information Systems and Technology, GPA: 3.5 *Dearborn, MI*

MASSACHUSETTS INSTITUTE OF TECHNOLOGY **May. 2024 – September 2024**
Applied Data Science Program: Leveraging AI for Effective Decision-Making

KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY **July. 2018 – May 2022**
Bachelor of Technology in Computer Science and Engineering, GPA: 3.96 *Bhubaneswar, India*

Relevant Coursework

- Database Management
- Data Analysis
- Machine Learning
- Practical Data Science
- Generative AI
- Enterprise Information
- Deep Learning
- BigData Visualization

Technical Skills

Languages: Python, SQL, Java
Tools: Power BI, Tableau, AWS, MS Excel, SAP Analytics cloud, Eclipse, Jira
Technical Concepts: Data Cleaning, Data Analysis, Modeling and Visualization, Hadoop, SAP Analytics, Database Management, Time series and trend analysis.

Experience

HighRadius **Jan 2021 – May 2021**
Data Science & Full Stack Intern

- Developed a full-stack Invoice Management Application using ReactJS, JDBC, Java, and JSP, reducing processing time by 30% and boosting user satisfaction by 25%.
- Implemented a machine learning model using **Python**, **TensorFlow**, and **scikit-learn** with 85% accuracy, reducing payment delays by **20%**.
- Collaborated with **cross-functional teams**, translating business requirements into technical solutions, increasing efficiency by **15%**.

Projects

Facial Emotion Recognition using Deep Learning | *CNN, VGG16, ResNet v2, EfficientNet* **August 2024**

- Applied **ImageDataGenerator** for **data augmentation**, enhancing robustness and improving classification accuracy.
- Engineered **CNN, VGG16, ResNet v2,** and **EfficientNet** models, achieving a **90%** accuracy in emotion detection.
- Fine-tuned **VGG16** and **EfficientNet** with **transfer learning**, increasing precision by **15%** for subtle emotions.
- Evaluated models using **confusion matrices**, with ResNet v2 and EfficientNet improving recall by **10%** for complex emotions like surprise.

Formula 1 Data Analysis using Microsoft Power BI | *Python, PostgreSQL, Database Designing* **April 2023**

- Implemented **ETL** process on a dataset of 300,000 records using **Python**, creating a structured database for analysis.
- Engineered and indexed **SQL** queries to optimize extraction latency by 30%, enhancing the accuracy of results.
- Designed an Interactive **Power BI** dashboard for visualization, highlighting key trends to streamline storytelling

Shinkansen Passenger Satisfaction Hackathon |*Decision Trees, AdaBoost, Random Forest, SMOTE* **August 2024**

- Evaluated multiple **classification models** achieving **95.1%** accuracy and securing **16th** place in the hackathon.
- Applied data cleaning and **SMOTE** to balance classes, boosting performance by **10%** on a dataset of 94,379 entries.
- Executed hyperparameter tuning with **GridSearchCV**, enhancing classification accuracy by **7%**, resulting in more reliable passenger satisfaction predictions.

Amazon Recommendation System Using Collaborative Filtering |*scikit-surprise, KNN, SVD, GridSearch* **July 2024**

- Processed 7.8 million records and implemented **collaborative filtering** with **matrix factorization**, achieving an **F1-score** of **0.64**
- Tuned hyperparameters of **SVD** and **KNN** models using **GridSearchCV**, achieving an F1 score of **0.641**.
- Conducted **feature engineering** on user-product interactions, enhancing model scalability and recommendation quality.

Certifications

- Applied Data Science Program: Leveraging AI for Effective Decision-Making | MIT - *Credentials* **August 2024**
- Cloud Computing Security | University of Colarado - *Credentials* **August 2021**