

# KAMESHWARAN S

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## SUMMARY

As a B.Tech graduate in IT with ongoing postgraduate studies in AI and Machine Learning at the University of Texas at Austin, I am a proactive and analytical technologist specializing in the application of Machine Learning and AI to solve real-world problems. With hands-on experience at VMware, Inc., I have a proven track record of enhancing processes and resolving critical issues through innovative technological solutions. My academic and professional journey has honed my skills in data analysis, predictive modeling, and NLP, empowering me to drive impactful business outcomes. Passionate about leveraging my technical expertise for the development of cutting-edge solutions, I am eager to contribute to a dynamic team and further my career in Machine Learning and Data Science.

## SKILL SETS

- **NLP & Deep Learning:** Transformers, Bert, RNN, LSTM, Bidirectional LSTM, CNN
- **Machine Learning:** Linear Regression, Logistic Regression, KNN, Clustering, Ensemble Technique, Decision Trees, Recommender system, Anomaly detection
- **Programming Languages:** Python, SQL
- **Libraries:** Sci-kit Learn, HuggingFace, PyTorch, Tensorflow, NumPy, Pandas, Matplotlib, Seaborn
- **Frameworks:** FastAPI, ZenML, AutogenAI (Prompt Engineering)
- **Software/Platforms:** AWS, Docker, GitHub, Power BI, Tableau

## PROFESSIONAL EXPERIENCE

### VMware, Inc

07/2022 – 01/2023

#### Member of Technical Staff

- Collaborated as a proactive member of the technical staff, contributing to troubleshooting and resolving critical customer-side issues by implementing code changes and optimizations.
- Successfully led the migration of a Jenkins pipeline to the Unified Test Service (UTS), streamlining the testing process and improving overall efficiency.
- Proficiently handled the installation, troubleshooting, backup, and restoration of VCSA (vCenter Server Appliance) during the training period, showcasing a deep understanding of virtualization technologies.

### VMware, Inc

01/2022 – 07/2022

#### Graduate Intern

- Interned with the Telco and Edge Computing team, responsible for providing certifications to new devices integrated into the network.
- Leveraged VMware Smart Assurance for device discovery and utilized Adapter Scripting Language (.asl files) to ensure seamless device certification.

## PROJECTS

### Data Analysis Projects

- T20 World Cup Data Analysis: Utilized web scraping for data gathering, Power Query for data cleaning, and Power BI for creating reports and visualizations. Conducted detailed analyses on players' performance metrics to select the best team.
- Sales Insight Project: Analyzed sales data using Power BI to provide valuable insights for business decision-making. Created visualizations for total revenue, sales quantity, top customers, and sales trends.
- F1 2022 Data Analysis: Explored the performance of teams and drivers in the Formula 1 2022 season. Analyzed race results, driver standings, and team performance, presented in a single-page report.
- Spotify Top 100 Songs Data Analysis: Analyzed the popular songs and artists featured in the Spotify Top 100 Songs dataset. Explored the rankings of artists and their song performance based on the number of plays.
- Please find my portfolio [HERE](#).

### Predictive Modeling

- House Rent Prediction: Utilized Linear Regression to forecast house rent prices based on features such as location, number of bedrooms, and amenities.
- Student Admission Prediction: Employed Logistic Regression to predict the likelihood of student admission by analyzing exam marks and other factors.
- Handwritten Digits Recognition: Leveraged a Neural Network architecture to create a model for classifying

handwritten digits with high accuracy.

- Please find my [IMPLEMENTATION](#) here

## Data Insights and Recommendations

- Mall Customer Segmentation: Applied K-Means Clustering to categorize mall customers based on their behaviors, using iterative algorithms to enhance accuracy.
- Anomaly Detection in Data Center: Developed an anomaly detection system using unsupervised learning techniques to assess the normal behavior of computers in a data center, flagging deviations based on throughput and latency. Please find my [IMPLEMENTATION](#)
- Movie Recommendation System: Built a movie recommendation system using collaborative filtering, employing both item-based and user-based approaches to provide tailored movie suggestions based on user behaviors and preferences. Please find my [IMPLEMENTATION](#)

## Natural Language Processing (NLP):

- Stock Price Fluctuation Prediction: Utilized NLP techniques like Bag of Words, TF-IDF, and Word2Vec to predict stock price fluctuations. Experimented with TensorFlow for deep learning-based predictions. Tech Stack: Python, Scikit-learn, TensorFlow.
- Fake News Detection with LSTM: Implemented Long Short-Term Memory (LSTM) networks to identify fake news articles, applying sequential analysis for accurate detection. Tech Stack: Python, TensorFlow, Keras. Please find my [IMPLEMENTATION](#)

## End-to-End Deployment (MLOps):

- Executed an end-to-end MLOps project for spam classification, demonstrating a comprehensive understanding of MLOps principles.
- Leveraged Huggingface for state-of-the-art NLP models and ZenML for ML pipeline orchestration, ensuring reproducibility and automation.
- Utilized DVC for versioning datasets and models, facilitating iterative development and collaboration.
- Integrated CI/CD with GitHub Actions for automatic testing and deployment.
- Served model API endpoints using FastAPI, providing a robust and efficient interface for model interaction.
- Find My implementations [HERE](#).

## EDUCATION

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Course	Institution	Year of Passing	Performance
PG in AI and Machine Learning	University of Texas at Austin	August 2024	3.78/4
Bachelor of Technology (Information Technology)	Thiagarajar College of Engineering	May 2022	8.26/10
Higher Secondary school	A.G.N. Matriculation and Higher secondary School	April 2018	93.25

## CERTIFICATION

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Certificate	Platform	Provider
Machine Learning Specialization	Coursera	Deeplearning.AI
Become a Data Analyst	LinkedIn	LinkedIn
Meta Backend Developer	Coursera	Meta