

# Yashaswi Kakumanu

## Machine Learning Engineering -- leveraging 6 years of experience

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## EXPERIENCE

### MACHINE LEARNING ENGINEER

PepsiCo, India

Nov 2023 – Present

Domain - CPG

- Leading the development of time series models to optimize financial forecasting and sales predictions for PepsiCo's FP&A metrics
- Spearheaded implementation of DevSecOps tools in the Azure pipeline, ensuring vulnerability checks and eliminating CVEs to align with compliance standards.
- Achieved a 57% reduction in training pipeline run time from 14 to 6 hrs, resulting in a significant cluster cost reduction while maintaining model operational efficiency.
- Integrated Azure DevOps with Kubernetes for CI/CD, ensuring seamless execution, monitoring, enhanced scalability, and automated deployments.
- Leveraged AWS Bedrock and Amazon Q for GenAI to enhance predictive accuracy and generate insights improving decision-making processes for the business unit.

### MACHINE LEARNING ENGINEER

Tiger Analytics, India

July 2022 - Nov 2023

Domain-Insurance

- Deployed ML models developed on platforms such as h2o.ai, DataRobot, and R onto AWS SageMaker, resulting in improved operational efficiency.
- Dockerized native model artifacts, enabling batch transformations and monitoring via AWS SageMaker pipeline.
- Efficiently managed infrastructure setup across dev and production accounts with Terraform and Azure pipelines.
- Implemented a financial prospect recognition system, resulting in a 40% cost reduction for the client.

### SENIOR ANALYST - MLE

Tiger Analytics, India

Dec 2021 -- June 2022

Domain-Insurance

- Orchestrated end-to-end model building, monitoring, CI/CD pipeline, and scalable models on AWS SageMaker, improving overall development efficiency.
- Engaged in agile pipeline deployment via Scrum process with 1-week sprints, ensuring prompt delivery and efficient team collaboration.
- Developed custom Sagemaker preprocessors, Estimators, and Docker estimator images for building pipelines using Sagemaker workflows. Orchestrated the entire pipeline using AWS Step Functions, enhancing the workflow automation.
- Designed and deployed a production-level scalable MVP platform for underwriters, reducing processing time from 2 weeks to just 5 minutes.

### DATA SCIENTIST

Infosys Limited, India

May 2019 -- Nov 2021

Domain - FMCG

- Conducted exploratory data analysis (EDA) to analyze the distribution and correlations of business data, providing valuable insights.
- Leveraged MLflow for experiment tracking and developed data-driven strategies, achieving a 45% reduction in procurement expenses.

### ASSOCIATE SOFTWARE DEVELOPER

DigiMind Engineering Services Pvt.Ltd, India

July 2018 -- Mar 2019

- Collaborated with clients during various phases of development, deployment, and production, ensuring smooth communication and requirement alignment.
- Researched and developed efficient solutions using Python, OpenCV and HTML. Successfully deployed the solutions in projects and delivered demonstrations to clients, including the Indian Army.

## EDUCATION

CBIT, Hyderabad

Bachelor of Engineering ,Information Technology

Aug. 2015 -- April 2019

CGPA: 9.03

## SKILLS

- **Languages:** Python, SQL
- **ML:** NumPy, Pandas, PySpark, SciPy, Sklearn, TensorFlow, Keras, NLP, GenAI, Classification, Regression, Time Series Analysis
- **Cloud:** AWS, Snowflake, AzureML, AWS ECR, SageMaker, Lambda, Step functions, Databricks
- **DevOps:** Docker, Kubernetes, Terraform, CI/CD, Git, GitHub, Azure DevOps
- **Orchestration:** MLflow, Airflow
- **APIs:** Flask, Fast API, REST API
- **Other:** H2O.ai

## CERTIFICATIONS

- **Kubernetes - Certified** [Kubernetes Administrator](#)
- **Databricks Certified -** [GenAI](#) , [ML Professional](#)
- **AWS Certified -** [ML - Specialty](#) , [Cloud Practitioner](#)

## CONTRIBUTIONS

- Open source contributor for [MLflow](#), [ProtectAI](#), [Stackoverflow](#)
- Contributor to data science community through [Medium articles](#)
- Authored and published the ebook ([Python Primer: Essential Concepts for Newbies](#)) on Amazon Kindle.

## ACHIEVEMENTS

- Selected to attend an AWS Certification Item Development Workshop 2024 in Seattle, exclusively attended by AWS SMEs.
- Honored as a Star Performer at PepsiCo for delivering business-critical solutions and optimizing operational efficiency.
- Received Infosys Client Partnership Award for the contribution of day to day procurement operations
- Spearheaded a 3-member team for the academic Project and got selected for the Students Project Programme 2019 on national wide
- Received Best Disciple of the year award for being a school topper (10 CGPA) in zonal level