Yashaswi Kakumanu

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MACHINE LEARNING ENGINEER -- leveraging 5 years of experience

Passionate Machine Learning Engineer with expertise in agile methodology and cloud environments. Proficient in designing, developing, testing, and deploying applications utilizing cloud technologies. Actively contributes to open-source projects, demonstrating a commitment to advancing machine learning through continuous learning and improvement.

EXPERIENCE

MACHINE LEARNING ENGINEER
Nov 2023 – Present
PepsiCo,India
Domain - CPG

- Currently leading the development of time series models to optimize sales predictions for specific PepsiCo products.
- Spearheading the deployment of machine learning models to production, ensuring seamless integration into the existing infrastructure.
- Collaborating closely with cross-functional teams to define requirements and deliver high-quality solutions for sales optimization.

MACHINE LEARNING ENGINEER
July 2022 - Nov 2023
Tiger Analytics,India
Domain-Insurance

- Spearheaded team of 4 to successfully onboard and deploy machine learning models developed on platforms such as h2o.ai, DataRobot, and R onto AWS SageMaker, resulting in improved model performance and 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.
- Conducted comprehensive vulnerability scans to ensure data security and compliance with client requirements.
- Implemented a financial prospect recognition system, resulting in a 40% cost reduction for the client.

SENIOR ANALYST - MLE
Dec 2021 -- June 2022
Tiger Analytics,India
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
May 2019 -- Nov 2021
Infosys Limited,India
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.

SOFTWARE DEVELOPER TRAINEE
July 2018 -- Mar 2019
DigiMind Engineering Services Pvt.Ltd,India

- 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, JavaScript, and HTML. Successfully deployed the solutions in projects and delivered demonstrations to clients, including the Indian Army.

EDUCATION
CBIT, Hyderabad
Aug. 2015 -- April 2019
Bachelor of Engineering ,Information Technology
CGPA: 9.03

SKILLS

Python, C,C++, SQL,NumPy, Pandas, PySpark, SciPy, Scikitlearn, Matplotlib, Pyplot, Supervised Learning, Unsupervised Learning,Deep Learning,Tensorflow, Keras, Snowflake, AWSSageMaker, Flask , AWS , Docker, Git,Azure Devops, MLflow, Databricks, H20.ai, Airflow, Terraform, CI/CD

CERTIFICATIONS

- AWS Cloud Practitioner
  ID - **20B30Q7CTNE11359**
- AWS Certified ML - Specialty
  ID - **7L08EVHK7N1Q1SC4**
- Databricks Certified Machine Learnin Professional
  ID - **81148053**
- Certified in Applied Machine learning -- Applied AI course

CONTRIBUTIONS

- Open source contributor for **MLflow,ProtectAI**, **Stackoverflow**
- Active contributor to the data science community through articles published on **Medium**
- Authored and published the ebook (**'Python Primer: Essential Concepts for Newbies'**) on Amazon Kindle, providing a comprehensive guide to beginners on fundamental concepts of Python programming.

ACHIEVEMENTS

- 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