KASTURI MITRA

DevOps Engineer at Credera

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EXPERIENCE

DevOps Engineer

Credera

October 2021 - Present

Azure GCP Terraform CI/CD MLOps

Client: Major UK Bank

- Worked as part of the Data, Analytics and AI team to build and integrate Data Route-to-Live into a self-serve platform which provides MLOps capabilities to process, analyse, and build models on production data
- Designed and implemented GitOps solutions to automate instantiation of template repos
- Deployed secure networking architectures in GCP, built workflows for artefact promotion across environments, introduced knowledge sharing sessions to improve collaboration

Client: Specialty Insurer

- Deployed foundational infrastructure as part of the Core Infrastructure team on a complex, greenfield project to build a platform for an Underwriting Service Model on Azure
- Maintained the platform as Platform Lead after initial deployment phase while liaising with Application and Data teams; enabled centralized cross-subscription monitoring

Internal Projects and Contributions:

- Azure Lead Engineer for the Internal Azure Platform setup budget monitoring; assigned appropriate RBAC for engineers on the platform
- Worked on Bid AI, a web app hosted on Azure using Kubernetes (AKS), which leverages AI to facilitate bidding for clients – deployed infrastructure to production; automated end-to-end deployment via CICD pipelines, eliminating manual steps
- Led project to automate periodic rotation of Azure credentials in GitHub Organization to improve security of the Azure Platform
- Led and shaped the Azure Playground, a sandbox environment with curated Terraform modules and Github Actions pipelines to streamline IaC deployments which enables rapid development of PoCs
- Presented and developed technical content for over 14 Graduate
 Programme sessions, ranging from DevOps to Data & ML
- Deployed a React app to visualize tubes in the London Underground network in real-time to AWS; refactored Terraform to separate persistent and ephemeral resources to reduce costs

Data Science Intern

BioXcel Corporation

June 2019 - July 2019

Python KNIME PowerBI

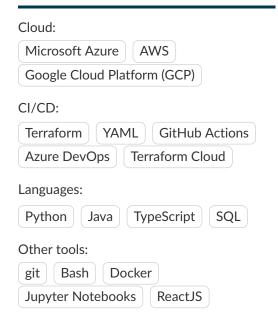
- Scraped and cleaned large volumes of research publications
- Predicted drug-disease correlation using machine learning models
- Integrated Python within KNIME to automate processes

ABOUT ME

I am a DevOps Engineer at Credera with over two years of experience across DevOps, Data, Machine Learning, and programming. I have worked on various client facing and internal projects through which I have been exposed to a wide a range of tools and technologies. My passion lies in building robust architectures on the cloud while streamlining the deployment using automated workflows. I am excited to develop my current skillset and actively contribute to new projects.

I am also an avid reader, writer, photographer and occasionally hike during weekends.

SKILLS



CERTIFICATIONS

Azure Developer Associate | 2024
Microsoft

Terraform Associate | 2023
Hashicorp

Associate Cloud Engineer | 2021
Google Cloud Platform

ML Practitioner | 2022

EDUCATION

MSc in Data Science

The University of Edinburgh (2021)

Grade 73.56%

- Modules: Machine Learning, Reinforcement Learning, NLP, Data Mining and Exploration, and Game Theory
- Dissertation: Automating the Identification of Startups for Venture Capital Firms

BSc in Computer Science (Honours)

University of Delhi (2020)

Grade 9.28 CGPA

Minor in Mathematics

PROJECTS

Automating the Identification of Startups for Venture Capital Firms

Masters Dissertation

June 2021 - August 2021

Web scraping Python | Machine Learning

- Developed a web-scraping algorithm that crawls the web to identify and classify potential investment opportunities for Venture Capitals (VCs) using NLP
- The algorithm identified startups with an accuracy of 85.54%

Visualizing World Data

Github Page

December 2018 - January 2019

Tableau Data Analysis

- Used publicly available socio-economic data
- Created relevant visualizations to find patterns in the various factors
- Interpreted the results by correlating with real world knowledge of countries

Text Analysis of a Novel

Github Repository

June 2018 - July 2018

R | NLP | Sentiment Analysis

- Used text from my novel (White Hole)
- Created visualizations for frequencies, correlations, and sentiments
- Used sentiment-per-section to infer and understand personal growth as a writer

ACTIVITIES

Participant, AWS Sustainability GameDay | 2022

Represented Credera at the AWS Sustainability GameDay, an AWS hosted coding challenge to reduce carbon footprint

Speaker, AWS Immersion Day | 2022

Presented the architecture for Streaming Data Platform (a web-app to visualize real-time TfL iournevs) to key clients at the **AWS Immersion Day**

Credera Representative, Grad Fair

Represented Credera in the Northumbria University graduate fair

Writer, Women in Tech Blog | 2022

Published a blog as part of the Women in Tech series for Credera's Medium publication and won most read blog of the month.

Organizer, Automata Symposium |

Inter-college computer science symposium

Founding Member, Pixelated Coders 2019

College tech club; organized advanced Computer Science workshops

Writer, White Hole | 2017

A self-published science fiction novel on Amazon

President, Redshift | 2016-17

School physics club; member since 2015

HOBBIES

