

Adnan Azmat

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Education

Birla Institute of Technology, Mesra

Ranchi, India

BACHELOR OF ENGINEERING | INFORMATION TECHNOLOGY | FIRST CLASS WITH DISTINCTION | GPA:7.5

July 2017 - June 2021

Experience

Microsoft

India

SOFTWARE ENGINEER | SPECIAL CLOUDS

Noida || July 2021 - Present

- Our team abstracts the challenges of config management to enable the deployment of Microsoft services to sovereign and air-gapped clouds
- Worked on designing, implementing and testing the CM solutions for M365 services deployed via containers on Azure Kubernetes Service
- Implemented the pipeline for moving region-specific service configs from their repositories to a config store. These are fetched and stored in the K8 config map of the cluster during deployment. Configured monitoring and alerting scenarios for the flow using Prometheus and Grafana
- This solution has simplified config file handling, allowed runtime config changes without redeployments and abstracted cloud sensitive configs

SOFTWARE ENGINEER INTERN | OUTLOOK CALENDARING

Bengaluru || Jan 2021 - June 2021

- Re-engineered Outlook events and calendar APIs, shifting from a monolith to a micro-services architecture using gRPC
- Developed a traffic splitter and telemetry tool to test the modernized APIs by redirecting user traffic from the legacy code
- Traffic splitter tool has enabled safe roll-out and testing of modernized APIs in stages, ultimately handling 15 billion monthly hits worldwide

SOFTWARE ENGINEER INTERN | EVEE BOT FOR MS TEAMS

Bengaluru || May 2020 - July 2020

- Worked on suggesting meeting invite subject line from a real-time chat conversation with a meeting intent for Microsoft Teams chatbot
- Trained and tested machine learning techniques and models, including Azure LUIS, RAKE, YAKE, and LSTM neural network on the Enron Corpus
- Accuracy of the models was measured using the BLEU score, and the most optimal model was integrated with the bot using Azure Bot Service

Projects

PassValue: Valuing Passes using Football Tracking Data

Available on Github

- Utilized tracking data to identify techniques for valuing passes, resulting in more comprehensive analysis than traditional events data
- Implemented a metric using tracking and event data to measure pass worth through calculations of pass distance, opponents positioning and press, pitch control, VAEP and pass errors. This metric can be used for ranking, scouting, and identifying teams and players with identical style

Conserve-a-BIT: Crowdfunding platform on Ethereum

Available on Github

- Blockchain based crowdfunding platform with an innovative smart contract which insures a transparent, safer and charge-less way to raise donations. Platform for non-profits, government organisations and startups to raise donations.

SaveEarth: Monitoring Social Media for Disaster Alert

Available on Github

- Social media is proving handy to detect and analyse weather changes, disasters and calamities.
- Efficiently monitors and analyzes tweets in real-time to detect, notify and spread information during disasters.

Leaf Disease Classification: Kaggle Competition

- Classify the type of disease (Bacterial Blight, Brown Streak, Green Mottle, Mosaic Disease, Healthy) on a data set of Cassava leaf images.
- Evaluated various CNN models and strategies; EfficientNet model achieved the maximum classification accuracy of 0.89

Honors & Awards

- 2015 **National Champions**, TCS IT Wiz: Tech Quiz with 20000 participants across India
- 2018 **2nd Place**, Codefundo++ Hackathon: Microsoft's Hackathon for college students
- 2021 **7th Place**, Forbes D2C Competitive Leaders 2021
- 2018 **3rd Place**, Innvision Run IO Hackathon
- 2019 **Top 5**, Jharkhand StartUp Hackathon: National Hackathon for budding startups
- 2017-21 **Scholarship**, Category A: Tata Steel Millennium Scholarship

Mumbai, India

Microsoft

Forbes

NIT, Rourkela

Ranchi, India

Tata Steel

Program Committees

- 2019-21 **Senior Executive**, IEEE Student Branch - BIT Mesra
- 2020-21 **Senior Executive**, ACM Student's Chapter - BIT Mesra
- 2019-21 **Right Back**, College Football Team
- 2019-21 **Quizzing Head**, UNESQO (United Engineers Speaking and Quizzing Organization)

Skills

Languages C, C#, JAVA, Python, HTML, CSS, JavaScript

Tools/Technologies Azure (AKS, Cognitive Services, Bot Service, Function App), git, Kubernetes, Node.js, gRPC, Scikit-Learn, Keras, TensorFlow

Machine Learning Regression, Classification, Decision Trees, Random Forests, Clustering, Natural Language Processing

Deep Learning Hyperparameter Tuning, Optimizers, Computer Vision (CNN, Classification, Detection, Segmentation), RNN, LSTM