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 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
- Designed and developed a traffic splitter tool to redirect traffic to the modernized APIs while also collecting metrics and telemetry for analysis
- Traffic splitter enabled safe roll-out and testing of modernized APIs worldwide while handling an average of 15 billion hits a month

SOFTWARE ENGINEER INTERN | EVEE BOT FOR MS TEAMS   *Bengaluru || May 2020 - July 2020*

- Worked on suggesting meeting subject line from a real-time chat conversation with a meeting intent for the 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.

PlayFair: Real-time Hack for Online Trivia Games   *Available on Github*

- Reliable hack which displays correct answers in real-time while playing live online trivia games using PyTesseract, Selenium and BeautifulSoup

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	*Mumbai, India*
2018	**2nd Place**, Codefundo++ Hackathon: Microsoft's Hackathon for college students	*Microsoft*
2021	**7th Place**, Forbes D2C Competitive Leaders 2021	*Forbes*
2018	**3rd Place**, Innovision Run IO Hackathon	*NIT, Rourkela*
2019	**Top 5**, Jharkhand StartUp Hackathon: National Hackathon for budding startups	*Ranchi, India*
2017-21	**Scholarship**, Category A: Tata Steel Millennium Scholarship	*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**, UNESQUO (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