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EDUCATION

Jhansi, UP, India	B.I.E.T.	May 2015-May 2019

- ▪ **Major:** Computer Science and Engineering (77.5%)

Professional Experience

Software Engineer	Optum	July 2019-Present

Optum IQStudio Orchestrator:
• Developed a scalable and self-serviced REST API application from scratch using Spring Boot and Terraform to create EIS compliant big data analytics executable platform on Azure cloud, reducing the infrastructure cost by 50%.
• Worked on building various predictive analytics using spark which runs on more than 100 millions of datasets at a time with 30% better performance.
• Improved job monitoring process with $30K cost saved annually, by building a sprint boot application for automating the whole process, which is deployed on Azure Kubernetes Cluster using Helm for monitoring analytics job in real time running on Azure Databricks.
• Revamped the process of artifacts publishing by introducing a new endpoint in the application to deploy artifacts using Jenkins pipeline, increasing the performance by 30x and $80k annual cost saved.
• Transformed issue ticket generation process by developing an automated service that tracks job execution and generates ServiceNow ticket for support team, reducing the overall process cost by $50K annually.
• Overhauled existing ETL data pipeline from scratch by pitching a new improved way which comprises of extracting and writing data directly from Snowflake warehouse table, which resulted in 2x better performance and 20% reduced cost
• Wrote a PySpark script for comparing two files at a time containing millions of datasets, with 10x better performance as compared to alternative tools available which saves more than $40K annually.

Optum Clinical Manager(OCM) :
• Modernising legacy Optum application by developing new web application "OCM" hosted on cloud leveraging latest tech, to be used by UHC Providers with 40% better performance in API request handlings and UI page loading & routing.
• Worked on building REST API applications using NestJS and GraphQL to interact with OCM to extract , process and provide required data with 40% increased efficiency.
• Accelerated development process by 3x by using Camunda modeler to create rule based engine for the OCM web application.
• Worked on Spark Streaming for sending & receiving respective events data to/from azure data sink.

Full-stack Java Developer Intern	ETL Labs Pvt Ltd	June-July 2018

Football News: Website to provide the latest news of the user's favourite football club.
- Built the core algorithm using reverse engineering mechanism and web scraping to fetch the latest news of the respective football club from the various websites.
- Leveraged following tech stack for project : MySQL as Database, Bootstrap, HTML, JavaScript and CSS for UI, JSP and Servlets for backend.

PROJECTS

Winner Predictor : Python application to anticipate the winner between the two cricket teams provided by the user.
- Generated the algorithm based on Statistical Modelling of data to generate the outcome of the match with 82.4% accuracy
- Utilized Pandas & NumPy for data wrangling and processing, Tkinter for UI, BeautifulSoup for web scraping for data.

Disease Predictor : ML application to speculate the kind of disease based on symptoms and providing a list of specialist doctors for consultation.
- Prepared model using Logistic regression to predict the disease based on symptoms with 79.8% accuracy.
- Utilized Pandas & NumPy for data wrangling and processing, Logistic Regression Algorithm for model, Azure Databricks to use model as a service, AngularJS for UI.

SKILLS

- *Technical:* Python, Java, Git, SQL, Spark, Kafka, Sqoop, Beam, GraphQL, HTML/CSS, AngularJS, NestJS, Helm, Terraform, Airflow, Snowflake, Spring Boot, Docker , Kubernetes, Camunda, Azure, ML Algorithms.
- *Non-Technical:* Communication, Leadership, Collaboration, Active Learning, Organization, Planning.