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EDUCATION

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

- **Major:** Computer Science (78.8%)
- **Programming Coursework:** Algorithms & Data Structures, Operating Systems, Networking, Pattern Recognition, Digital Image Processing, Theory of Automata

EMPLOYMENT

Software Engineer **Optum** **July 2019**

Optum IQStudio Orchestrator:

• Developed a scalable, fault tolerant 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%. A Platform consists of multiple azure resources such as Databricks, Kubernetes Cluster, Storage Account, VPN, NSGs etc.
• Worked on building various predictive analytics using spark which runs on more than 100 millions of datasets at a time with approximately 30% better efficiency.
• Built a job monitoring application using sprint boot that is deployed on Azure Kubernetes Cluster using Helm for monitoring analytics job in real time running on Azure Databricks, saving more than 30K annually by removing manual intervention of job monitoring by the support team individuals.
• Built a new endpoint in the application to deploy artifacts using Jenkins pipeline, which reduced manual intervention and reduced time spent on the process by 30x, in turn saving more than $80K annually.
• Built an automated service that tracked job execution and generated ServiceNow ticket to support team, saving more than $50K annually by removing manual intervention in which user had to go to the portal and generate ticket on it's own.
• Built a dynamic dashboard on Azure, displaying real time analytic job metrics executing on Azure Databricks.
• Developed a new ETL data pipeline alone from scratch for extracting data from Snowflake warehouse table, executing the job on Azure Databricks and writing back the output in a Snowflake DB table.
• Developed a PySpark script with complete ownership for comparing two files at a time containing millions of datasets, with very high performance from other alternative tools available and removing manual intervention completely, saving more than $40K annually.
• Developed the application workflow using Airflow.
• Worked on deployment of the applications on the OpenShift Platform using CI/CD pipelines built on Jenkins.
• Lead two teams for developing POC projects from scratch with owning responsibilities such as architecture, tech stack decisions, code reviews etc.

Optum Clinical Manager :

• Developing a scalable and fault tolerant web application namely OCM using AngularJS , NestJS, GraphQL etc. to be used by UHC Providers hosted on cloud with better performance capable for handling millions of requests.
• Developed REST API applications using NestJS and GraphQL to interact with OCM web application to extract , process and provide required data.
• Built rule based engine using Camunda modeler 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.

- Used reverse engineering mechanism and web scraping to fetch the latest news of the respective football club from the various websites.
- Used MYSQL database for data management such as user account data, user's preferences etc.
- Used Bootstrap, HTML, JavaScript and CSS for frontend application.
- Used JSP and Servlets for backend or server side for handling user request.
- Leveraged knowledge in Full Stack Web development, Java (JSP, Servlets), HTML, CSS, JavaScript, Git, and debugged using Chrome Developer Tools.

PROJECTS

Football News

- Used reverse engineering mechanism and web scraping to fetch the latest news of the respective football club from the various websites.
- Used MYSQL database for data management such as user account data, user's preferences etc.
- Used Bootstrap, HTML, JavaScript and CSS for frontend application.
- Used JSP and Servlets for backend or server side for handling user request.
- Utilized: Java programming, JSP, Servlets, HTML, CSS, JavaScript, Git, and debugged using Chrome Developer Tools.

Winner Predictor

- Built a Python application using Pandas, Numpy, BeautifulSoup ,Tkinter etc. to predict the winner between the two cricket teams provided by the user.
- Built the UI of the application using Tkinter to get the input from the user and provide the output.
- Developed the algorithm based on Statistical Modelling of data , in which based on the inputs provided by the user i.e. teams , players , ground etc. and the historical data scraped from web using BeautifulSoup, feature weights are calculated and then are used in the mathematical formula to predict the outcome of the match.
- Accuracy of the model is above 80%.
- Utilized: Python programming, Pandas, Numpy, BeautifulSoup, Tkinter, Git.

Disease Predictor

- Built a ML application using Azure Databricks , AngularJS , Pandas, Numpy, Logistic Regression Algorithm etc. to predict the kind of disease user might be having based on symptoms provided by the user and based on the disease application will provide a list of specialist doctors which user can contact for consultation.
- Used Logistic Regression Algorithm to prepare the model for disease prediction.
- Used Azure Databricks to register the model and exposed it as service to get the output for individual inputs.
- Used AngularJS for UI , where user will provide the input and get the respective output.
- AngularJS application used REST API to interact with model serving as a service on Azure Databricks to collect the outcome of the input provided by the user.
- Additional features of application were ratings of the doctors and their consultation fees. User can view the existing ratings and the fees they will be charged and can also provide the review/feedback based on their experience which will affect future rating of the doctor.
- Utilized: Python programming, Pandas, Numpy, Logistic Regression, AngularJS, Azure Databricks, Git.

Inactivity App

- Lead a team to develop an application that tracks user's inactivity based on various feature such as age, locality etc. and will generate an alert in case of the user being inactive beyond a threshold.
- Agenda of the application is to look for any suspicious activity of the lonely elder people, so that nearest responsible person can be notified in case of any emergency.
- Prepared core algorithm by incorporating multiple core features provided by the OS of android and iOS mobiles such as location tracking, distance travelled, screen activity time etc and calculating activity on such features and comparing with threshold to derive the inactivity of the user.
- Prepared architecture of the application
- Used Firebase database for data management.
- Used Flutter to develop cross platform app development
- Utilized: Flutter, Java, Firebase, HTML/CSS, XML, GIT

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, Time Management, Adaptability , Leadership, Problem Solving, Collaboration, Active Learning, Organization, Planning.

Achievements

- Qualified for state level 1st Superfast Calculations Competition.
- Achieved merit performance in aptitude test conducted by EWTS Module Brain Boosters.
- Qualified for district level Inter School SpellBee India 2010.
- Lead my local football team to Quarterfinals of district football league 2021.
- Team member of the College football team that was runner up in Inter College Sports Fest 2018.