**AKASH GUJE**

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**SOFTWARE DEVELOPER / DATA ANALYST/ ML ENGINEER.**

Shape

**PROFESSIONAL SUMMARY:**

* Software developer cum Data Analyst with 4+ years of experience in the software industry combining a post-graduation degree in Artificial Intelligence and Machine Learning.

**SKILLS:**

**Languages:**

* Python (NumPy/Pandas/SciPy/Scikit-learn) **|** C++ **|** C **|** Java **|** SQL **|** Informix **|** Shell Scripting | Java Script | HTML .

**Cloud Services and Operating System:**

* AWS SageMaker | S3 | AWS Glue | Quciksight | Athena | LINUX **|** UNIX | Windows.

**Frameworks:**

* Hadoop | Apache Spark | TensorFlow | PyTorch |

**Data Science and Machine Learning Skills:**

* Data Mining **|** Data Visualization **|** Design, Evaluate and Optimize state-of-art Models (Regression, Classification and Neural Networks) **|** Deep Learning (CNN,RNN and Transfer Learning, Generative Networks) | Tableau Desktop.

**Natural Language Processing:**

* Named - Entity Recognition | Sentiment Analysis | Tokenization | Vectorization | Lexical Semantics | Topic Modelling | Text Summarization (Abstraction and Extraction) |

**Cloud Services Workflow Tools:**

* GIT **|** ONE STASH **|** Jenkins **|** One Confluence **|** Jira **|** MS Office.

**WORK EXPERIECNE:**

* **Engr II-Software Development** – Verizon Data Services India. July. 2017 – Dec. 2021
  + **NTAS PROJECT:** NTASis a stand-alone application that queries for Verizon customer Addresses and Telephone numbers. It also provides facilities to update as well as add or delete Telephone numbers associated with an address. Backend services are developed in Python and C++ connecting to Informix DB.
    - Collaborate with the Verizon business team to get the application requirements and design, develop and deploy the requirements to the production.
    - Maintain the application DevOps pipeline using python scripting and Database systems.
    - Led the development effort in migrating the application from the LINUX On-Prem environment to the AWS Cloud environment.
    - Developed an APIGEE microservice to establish a communication line with the application.
    - Familiar with agile methodologies and software development life cycle.
  + **LOCUS PROJECT:**
* Collaborate with product managers to perform analysis that identified the opportunity to reduce the failed verizon orders by 8%.
* Perform DataWarehousing using complex sql queries and automating these scripts using a scheduler.
* Write python scripts for cleansing, transforming and organizing data.
* Develop a KPI Visualizations using Tableau.

**AI PROJECTS EXPERIENCE:**

* **Unpaired Imaged to Image Transition –**
  + Performed Generative Deep Learning techniques to generate images based on the styles of renowned painters such as Raja Ravi Varma and Emily Carr.
  + Implemented Variational Auto Encoders to develop basic models and then leveraged the Generative Adversial Network architecture to capture the feature space of Paintings and generate it based on a new base image.
  + Leveraged Cycle GAN networks to develop state-of artist models by training four neural networks.
* **Canada Election Sentiment Analysis** –
  + Collected Data from Twitter for the 2015,2019, and 2021 Canadian elections using tweepy package in python and searching tweets based on hashtags.
  + Performed a extensive NLP Data Preprocessing and Visulizations which involves removing punctuations, mentions, special characters ,Tokenization, Lemmatization, Vectorization, wordclouds and finding corpus characteristics.
  + Evaluated and optimized traditional machine learning models such as Logistic Regression, SGD Classifer and Random-Forest Classifer with respective cost-functions and hyperparameter tuning techniques like Grid-Search. And compared the results generated by Trasnfer Learning(BERT Model) and feed forward neural networks.
  + Developed a Topic Modelling model using Latent Dirichellet Allocation.
* **Cricket Match Winner Prediction:-** 
  + Data Collection involved here was web scraping International Cricket T20 Matches data using BeautifulSoup packages in python and performed Feature Scaling using Normalization and Standardization and Feauture Engineering using statistical analysis(Player rating based on the score and matches)
  + Leveraged Pincipal Component Analysis(PCA) to reduce the dimensions of the training data set and implemented Machine Learning algorithms such as Linear Regression with reguralization, Support vector machines, Artificial Neaurl networks to predict the match winner.
  + Used Flask Framework to develop a API endpoint for the model.
* **News Summarization:-** 
  + Leveraging the Google news website to summarize news articles using the NLP text Summarization techniques such as Singular Value Decomposition.
* Participated in Data mining Competition held by **Statistics Canada.**

**EDUCATION:**

* **Post graduation specialized in Artificial Intelligence and Machine Learning.**

Lambton College, Toronto ,ON —Jan. 2022 – Aug 2023

* **Bachelor’s of Sciences specialized in Computer Science.**

Loyola Academy, Hyderabad, India — Jun. 2014 – April 2017