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| Akash Kumar Gupta  akashbadalgupta@gmail.com | |  |  | | --- | --- | |  |  | |  |  | | linkedin.com/in/akash-kumar-gupta-65795065 |  | | +91-8310450416, 8010081507 |  | |  |  | |

Having 7 years of experience in the IT industry, excited to be a part of a high-performance Analytics and Engineering team and add value to the organization.

**Skills**

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| --- | --- |
| * Language & API: **Python, Pyspark** * Libraries: NumPy, Pandas, Sklearn, Keras, TensorFlow * **Machine Learning** (Classification, Regression, Clusteringetc) * **Deep Learning** (CNN, RNN, LSTM, GAN etc.), **NLP** * **AWS** (EC2, Lambda, API, S3, Sagemaker, Bedrock, Glue) * **Generative AI, LangChain, LlamaIndex** | * Database: **MySQL** * Visualization Tool: **Tableau** * Tools: Jupyter, Spyder, PyCharm, Dataiku * Linux Basics, Streamlit * Dockers & Containers * **OpenAI,** LLMs**,** Prompt Engineering |

**Experience**

**GenAI Projects:**

* *Multi Modal RAG Application*: Build end to end data pipeline to query Semi-Structured PDFs using Langchain, unstructured, OpenAI Embeddings, Chroma DB vector store, MultiVectorRetriever etc.
* *Basic RAG Application using LLM on AWS Bedrock*: Build app for text-based Document Question & Answering using Langchain, Amazon API Gateway, Streamlit, Lambda Function, LLM Model from Bedrock.
* Multi AI Agents Integration for specific tasks using CrewAI, Langchain , Opena AI, Gemini, Serper API
* RAG Application using *LlamaIndex* and *Gemini* for querying Documents with quicker response.
* Build Chatbot using GPT Model from OpenAI using Langchain, Sequential Chain with buffer memory.

### AUG,2024 – (TILL DATE)

## AI ENGINEER(AWS)/

Being part of Data Analytics team in SoftwareOne ,was involved in POCs and Projects as follows:

**Projects:**

* **Great Vantage**: Developed a chatbot leveraging Amazon Bedrock to provide intelligent responses based on historical ticket data. Integrated a knowledge base for seamless retrieval and context-aware support automation.
* **Yinson :** Designed and developed a custom Amazon Q Business app to streamline business processes and enhance operational efficiency. Leveraged document enrichment and AI capabilities for data-driven insights.
* Build multiple demo projects like Assignment Evaluator using GenAI, Document Comparer using LLM Model etc.

### SEP,2022 – SEP,2023

## Data Science Analyst /

Being part of Data Analytics team in Maveric System ,was involved in POCs and Projects as follows:

**Projects:**

* *Synthetic Data Generation***:** Generated Synthetic Data to solve the requirement of excess customer data belonging to certain criteria for Test Data Management using CTGAN as base model.
* *Detecting Sensitive data*: With the use of AWS Glue, masked sensitive information from the data for further analysis.
* *Customer Review Analyzer*: Build the model to analyze the customer reviews and comments to gain insights for improvements.

### Jan,2019 – SEP,2022

## PowernetSr. Analyst /

Worked for Powernet Communications (partner with MTNL) as analyst, my responsibilities and projects are:

**Projects:**

* *Customer Segmentation:*Segmented the customers of Powernet to figure out the potential customers that could be offered new plan.
* *Predicting Customer Churn:* Analyze and predicted the high-risk customers that can leave the company in near future
* Work on ad-hoc customer reports like payments, sales, revenue etc and built dashboards accordingly on tableau.
* Actively monitor and analyze competitor’s internet plans, promotion strategies and other business needs.

### Feb,2017 – DEc,2018

## Associate / Amazon

Worked as an Associate for E-commerce giant, Amazon while contributing to the workflow as:

* *ASIN SEARCH***:** Using Python and BeautifulSoup module wrote a script to detect the error on the product web page of Amazon.
* Writing queries and extracting data from database using Amazon internal tools.
* Understanding requirements and creating reports based on ad-hoc requests.
* Worked closely with Automation team and have exposure of Machine learning algorithms being implemented.

**Other Projects:**

* Use of LLM Model for Text Generation on AWS Bedrock using Lambda function and Amazon API Gateway.
* Use of Open AI and GPT model to query PDF using Langchain Framework.
* *Model Deployment on AWS:* Worked on Prediction Model and deployed on AWS using EC2, WinSCP, Putty, Python and Jupyter Notebook, Flask.
* *Web Scrapping***:** Wrote a script to scrap the data from MTNL website to present it in an Excel file while working with Powernet.
* Text Generation using LSTM

# Education & Certifications

### 2012-2016

## B. Tech / Guru Gobind Singh Indraprastha University, Delhi

(Electronics and Communications Engineering), Agg: 70.70 %

### 2011

## Intermediate / C.B.S.E

Woodbine Modern School, Darbhanga Agg: 73.8 %

### 2009

## Matriculation / C.B.S.E

N.S.D.A.V Public School, Sitarmarhi Agg: 89.0 %

* 6 Months Certification Course on **Machine Learning** from **Indian Institute of Science** (IISC Bangalore)
* Certified in **Python 101 for Data Science** via COGNITIVE CLASS.ai (an **IBM** initiative).

Certification URL: <https://courses.cognitiveclass.ai/certificates/5946b5a0914441b680a6727ce26a4311>

* Certified in **Machine learning with Python** via COGNITIVE CLASS.ai (an **IBM** initiative).

Certification URL: <https://courses.cognitiveclass.ai/certificates/7f27aea4efed4b0c91910d63713e017b>T, NIT, Exp: 5 yrs., NL

# Activities and Personal Details:

* Passionate Flutist
* Table Tennis and Badminton Player
* Martial Arts and Meditation
* Investor and Swing Trader (NSE)
* Marital Status: Single
* Hometown : Motihari, Bihar