SHRESTHA ABHINANDAN

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INTRODUCTION

Hello, my name is Abhinandan Shrestha. I recently completed my bachelor's Degree in Computer Engineering (With Elective I: Data Mining and Warehousing, Elective II: Big Data Technologies). I was able to gather some basic Data Engineering skills through Apprenticeship Programme organized by Code Rush Pvt. Ltd. I'm currently seeking an entry-level in the Data Engineering field. I enjoy a challenging environment that motivates me to do my best. I want to excel at prioritizing responsibilities and effectively completing tasks. With the growing demands for Data professionals, I'd love to be part of Data Engineering professionalism.

EDUCATION

Bachelors of Engineering | *Computer* — 2018 – 2022
Khwopa College of Engineering | *Tribhuvan University* — Libali, Bhaktapur

+2 Science | *Physical Science* — 2016 – 2018
Capital College & Research Center — CCRC College — Balkumari, Lalitpur

S.L.C — 2016
GEMS School — Dhapakhel, Lalitpur

WORK EXPERIENCE

Data Engineering | *Apprentice* — Nov 2022 – Jun 2023
Code Rush Pvt Ltd — Bhanimandal, Lalitpur 44600

AI Fellowship — Jan 2023 - Jun 2023
Fusemachines Nepal Pvt. Ltd. — Kathmandu 44600

PROJECTS AND RESEARCH

Real time sentiment analysis of Reddit comment stream using Kafka | *Data Engineering* — 2023
Used Reddit API to get the comment stream from the subreddit 'soccer' and then sentiment score was calculated using SentimentIntensityAnalyzer which is available in NLTK (python) and then placed on Kafka topic, and then visualization was done with Plotly Dash in near real-time by consuming data from the Kafka topic.

Nepalyp Project | *Data Engineering* — 2023
Scraped data about companies in Nepal from ww.nepalyp.com using Scrapy, stored in PostgreSQL (AWS RDS), Created API using API Gateway and Lambda, and then visualization was done using Plotly Dashboard. Apache Airflow was used to automate the process, and finally, it was hosted on AWS EC2 Instance. This project was assigned as a task for an apprentice by Code Rush Pvt. Ltd.

AWS DE Capstone Project | *Data Engineering*   2023

This project was a part of completing the AWS Data Engineering Course through which I was able to grab the entire summary of the AWS DE Course in one project with familiarity with AWS S3, AWS Glue Crawler, Athena, AWS Quicksight, and Cloud9 IDE. This project was bound to find the year, Country, and Weight of fish caught in a particular country. The dataset used was Sea Around US that further divides the dataset into open-sea areas and Exclusive Economic Zones. Firstly, data was loaded into Amazon S3, and then the pandas library was used to read and save the data into parquet format for saving memory. Then, a simple query was performed using S3 Select. To query across multiple files, firstly AWS Glue crawler was used to set up the AWS Glue database. The crawler created a table that contains metadata in the AWS Glue database after which Athena was used to perform the query. For visualization using AWS Quicksight, Athena view was set up as a dataset for Quicksight. A Bar chart was created to find the weight of fish caught in a particular year in a particular country.

YAHOO STOCK PRICE NOTIFIER | *Python*   2023

This was also a practice project assigned by Code Rush. Users can get information about various stocks using Stock Ticker Symbol and period, & apply for a subscription that allows users to place a threshold. Once the current price of the entered stock crosses beyond the provided threshold, the user can get a notification by email or SMS. This project was done using Flask.

Benford Law test for CSV data | *Python*   2023

User can upload a CSV with 10k rows and 1 column to check if satisfies Benford's Law. This project was also part of the apprenticeship which was completed using the Pyramid Framework.

News Scraping, Data Visualization & API Creation | *Data Pipelining*   2023

This was my first project as an Apprentice where I scraped data from Himalayan Times using BeautifulSoup4, created API using NodeJS/ExpressJS, and for the visualization, Matplotlib was used.

Real time Intrusion Detection System using Few shot Learning | *Major Project*   2022

This was a Major Project in the final year of my bachelor's Degree. In this project, we captured real-time network traffic and used it to predict if it was normal traffic or anomaly using Few-shot learning which required the image datasets. Since network traffics are tabular Data, they had to be transformed into image representations for few-shot implementation. With prediction, all the visualizations related to the traffic had to be displayed in a web application in real-time which was made possible by the use of WebSockets.

Voice Authentication System | *Minor Project*   2021

Using the Gaussian Mixture Model, we created a model that can predict the user that is speaking and used this model in creating a Mobile App that can log in using the user's voice biometrics.

Django crud-app & Basic API using DRF | *Python*   2021

Practice

Pong-game | *Python*   2020

Practice

CERTIFICATIONS

Coursera: Introduction to Data Engineering
Coursera: Introduction to Git and GitHub
MyGreatLearningAcademy Introduction Big Data & Hadoop
MyGreatLearningAcademy Kafka Basics
MyGreatLearningAcademy Introduction to Apache Hive
MyGreatLearningAcademy Cassandra Tutorial

TRAINING AND PARTICIPATION

AWS Data Engineering Course: The course credential was provided by Code Rush Pvt. Ltd.
Basic Python Workshop: Organized by Khwopa College of Engineering
KU Hackfest 2022: Simulation that controls the time of traffic lights based on the traffic on the road.
Arduino-Based Competition: Voice Based Home Automation System
Django Workshop: Organized by PDSC

SKILLS

Languages: English, Nepali, Newari, Hindi
Hobbies: Guitar, Music, Football, Gaming, Coding
Programming: Python, Javascript, MATLAB, PHP, Dart, HTML/CSS, C/C++, Java, Rust
Document Creation: Microsoft Office Suite, LaTex, Markdown