Kaumil Trivedi

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Education

Simon Fraser University — Burnaby, BC, Canada
Masters of Science, Professional Computer Science — *Sep 2021 – Present*

Gujarat Technological University — Ahmedabad, GJ, India
Bachelors in Computer Engineering; GPA: 3.68 (9.22/10) — *Jul 2014 – May 2018*

Technical Skills

Languages: Python, SQL (MySQL, Postgres), JavaScript, HTML, CSS
Tools: AWS, Docker, Flask, FastAPI, Spark, MapReduce, MongoDB, CassandraDB, Tensorflow, Git

Experience

Simon Fraser University — Burnaby, BC, CA
Teaching Assistant — *Sep 2021 – Present*

- Schedule tutorial sessions and office hours to resolve doubts of students, along with grading tests on time, resulting in improved student performance

Areli Commerce Private Limited — Ahmedabad, GJ, IND
AI Developer — *Apr 2019 – Apr 2021*

- Designed a search system **Flask API** using **Python, SQL** and **AWS Elasticsearch**, allowing customers to access 100,000 products online
- Implemented a novel sorting algorithm API using **Python, Flask, Pandas** and deployed it on **AWS EC2**, decreasing customer attrition **by 10%**
- Developed a **serverless AWS Fargate API** to train a machine learning algorithm using **K-Nearest Neighbours algorithm**

Turabit Solutions Private Limited — Ahmedabad, GJ, IND
AI Developer — *Jun 2018 – Mar 2019*

- Implemented a feature using **Python** and **Flask** to schedule software installation using an enterprise chatbot in machines in a local network
- Trained a **Random Forest classifier** using **Scikit-learn** and **NLTK** toolkit to determine intent of the user query and call the appropriate function to fulfill the task

Projects

Aviation Safety in Canada | *Python, Spark, AWS S3, Lambda, Glue, QuickSight* — Oct 2021 – Dec 2021

- Collaborated in a team to use **Spark, AWS Lambda, S3** and **Glue** to implement an **ETL pipeline** to scrape and process civil aviation accident and incident records on a weekly basis
- Utilized **AWS Quicksight** to create a dashboard representing vital statistics
- Developed an **unsupervised system** using **K-Means clustering** algorithm to determine the possible features leading to fatalities/injuries in an accident

Accident Analysis | *Python, Docker, Elasticsearch, Kibana, Apache Nifi, Spark* — Apr 2021 – May 2021

- Used **Apache Nifi, HDFS** and **Spark** to create an **ETL pipeline** processing records about accidents that happen in New York
- Enhanced the workflow by containerizing the entire work flow using **Docker**
- Worked on aggregating and storing the data on **AWS Elasticsearch** and visualizing the data on **Kibana**

Emof_AI | *Python, Flask, Keras, Jinja2, Git, HTML, CSS* — Jan 2018 – Mar 2018

- Programmed a **object detection** system to detect faces in a video
- Trained a **Convolutional Neural Network** using **Tensorflow** to capture faces in a video stream and detect the emotion, gender and age group of the person with 99.2% accuracy
- Created a using **Flask** and **Jinja2** to provide a demographics graph displaying the proportions of emotions in the processed video

Self-Directed Learning / Certifications

AWS Certified Developer Associate | *Amazon Web Services* — Nov 2020 – Nov 2023
Advanced SQL : MySQL Data Analysis & Business Intelligence | *Udemy, Inc.* — Apr 2021
Spark and Python for Big Data with PySpark | *Udemy, Inc.* — Sep 2019