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