

DAKSH PATEL

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SUMMARY

Driven graduate with **1.5 years** of hands-on expertise in **data science** and **software engineering**. Proficient in **Python, R, Java**, and **Databases**. Ready to infuse innovation into an entry-level role. References available upon request.

EDUCATION

Northeastern University | **GPA : 3.63/4.00**

Boston, MA

Master of Science in Information Systems

Apr 2024

Gujarat Technical University | **GPA : 8.77/10.00**

Ahmedabad, Gujarat

Bachelor of Engineering in Information and Communication Technology

July 2021

TECHNICAL SKILLS

Languages: Python, R, Java, SQL, JavaScript, Dart, HTML/CSS, C++, C

Databases: MongoDB, MySQL, Firebase, PostgreSQL, Microsoft SQL Server, Flask

Developer Tools: Git, Docker, AWS, Power BI, Tableau, Looker, JIRA, SAS

Libraries: Pandas, NumPy, SciPy, Sklearn, Matplotlib, Keras, TensorFlow, PyTorch, Scikit-learn, React

EXPERIENCE

Data Science Intern - CREWASIS - Brooklyn, NY (4 Months)

Sept 2023 – Dec 2023

- Integrated **ETL** processes with BeautifulSoup to gather data from social media and news articles, generating pickle files, and conducting **Latent Semantic Indexing (LSI)** for topic modeling on a dataset of over **2M** data points
- Implemented **time series** algorithms (**ARIMA**, **FBProphet**) to predict future trends with an impressive average accuracy of **94%**, enabling proactive decision-making and providing crucial business insights
- Devised sentiment classifiers for **NLP** analysis of social media data, yielding actionable recommendations through **Machine Learning** insights for market-based product analysis
- Collaborated with CEO and Marketing team to strategize data solutions, leveraging **Tableau** insights for reports and contributing to cross-functional teams for data processing and model validation

Graduate Teaching Assistant - NEU - Boston, MA (4 Months)

Sept 2022 – Dec 2022

- Prepared engaging presentations on advanced **Java** topics, such as object-oriented programming & data structures
- Communicated with the course instructor for creating course materials, including lecture slides and lab solutions
- Demonstrated best practices by problem-solving sessions resulted an avg improvement of **9%** in students' grades

Software Engineer Intern - ELYSIOT - Milpitas, CA (5 Months)

Aug 2021 – Dec 2021

- Collaborated with a cross-functional team of software engineers using **JIRA** to implement **agile methodologies**, incorporating debugging and testing practices
- Developed and integrated **15** micro-functions for specific operations, and optimized efficiency by transforming 20 recurring Flutter components into reusable elements
- Engineered a push notification system with Firebase Cloud Messaging (FCM) and **REST API**, optimizing performance by implementing cached notification templates for **25%** quicker delivery
- Designed dynamic Rive animation integration with Flutter, enabling visually appealing front-end animations for individual users, which boosted site traffic by **17%**

Data Science Intern - BIM INFRA. LLP - Ahmedabad, Gujarat (6 Months)

May 2020 – Oct 2020

- Performed statistical analysis and **forecasting** on data from multiple **IoT** sensor products, resulting in improved accuracy of real-time progress monitoring for road building projects
- Enhanced predictive modeling accuracy by **8%** through the implementation of **Bi-Directional LSTM** with **Transfer Learning** techniques, leveraging **deep learning** methodologies over previous **linear regression** models
- Cooperated with a team and published a research paper that received more than **20 citation**

PROJECTS

TradeSense AI | **AWS (SageMaker, Lambda, API Gateway, SNS, S3)**

Dec 2023 – Feb 2024

- Successfully integrated cutting-edge AI technologies, including **Amazon S3**, **SageMaker**, **Lambda Functions**, **API Gateway**, and **XGBoost**, to create a seamless and efficient platform for day-ahead stock price predictions
- Designed and Developed a user-friendly **API**, simplifying the process for end-users to make **POST** requests
- Engineered and implemented an email subscription service using **Amazon SNS**, ensuring subscribers receive timely notifications with predicted stock prices, enhancing user engagement and market awareness

AIDOC | **Flutter, API, TensorFlow, Firebase, Git, Flask**

Jan 2021 – July 2021

- Innovated cross-platform application assisting patients with disease diagnosis using scanned X-rays & MRI images
- Involved actively in Front-end development, Backend Scripting, **API** integrations, web designing and deployment of the database using the **Flask** server and Flutter
- Utilized computer vision by integrating a **Convolutional Neural Network (VGG-16)** with TensorFlow and TensorFlow Lite, achieving an **83%** accuracy rate in image recognition.