

VATSAL JIGAR KADAKIA

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Education

Stevens Institute of Technology, New Jersey

Aug 2022 – May 2024

Masters of Science in Data Science

GPA: 3.8/4.0

Coursework: Time Series Analysis, Deep Learning, Applied Machine Learning, Statistical Methods, Optimization Methods

University of Mumbai, India

Aug 2018 – May 2022

Bachelor of Engineering in Computer Engineering

GPA: 3.82/4.0

Coursework: DBMS, Operating Systems, Data Analytics, Software Engineering, Object-Oriented Programming

Technical Skills

Languages: Python, R, SQL, JavaScript, XSL, XML, JSON, Dart, HTML, CSS

Database: MySQL, NoSQL, Firebase, MongoDB, Hadoop, Apache, Spark

Developer Tools: Git, GitHub, AWS, Jira, Microsoft Power BI, Tableau, Oracle Analytics Cloud

Technologies/Frameworks: Docker, React, Flutter, Flask

Experience

Minerals Technologies Inc, Bethlehem, PA

Jun 2023 – Dec 2023

IT Intern - MTI Oracle

- Collaborated with the **Oracle Analytics** team of the USA, Europe and India to migrate client data from **Oracle E-Business suite** to **Oracle Analytics Cloud(OAC)**.
- Developed **composite visualizations** of financial portfolio on OAC dashboard (**Sales Data Mart and ADW Sales Voice - Datasets**) transacting CY expense of \$893 Millions, PY expense of \$629 Millions and 42% Change expense.
- Revamped data project with OAC's **Machine Learning module**, reducing duplicate data by 40% and facilitating timely report and dashboard creation.
- Automated incident and request handling of company's **ServiceNow Chatbot**, reducing employee manual work by 35% and improving ServiceNow accessibility by 50%.
- Mastered and deployed **Java Scripts** using in-built **Natural Language Processing(NLP)** techniques to improvise plugins(ITSM, Conversational Appointment booking).

Projects

Automated Healthcare System using Gamification and AI based Chatbot

Web Application

- Collaborated with 2 peers to develop **MEDIXA, an AI-based Healthcare Chatbot**. Employed **Naive Bayes & Random Forest Classifier algorithms** for chatbot development.
- Curated and formatted data sets for disease prediction, home remedies, general Q&A. Investigated **Kaggle** website for relevant datasets and resources. Utilized **Flask Web API with MySQL** database for backend functionality.

Product Sentiment Analysis of iPhone 15 | Python, Machine Learning, NLP

Academic Project

- Analyzed iPhone 15 sentiments from 20k tweets with **VADER/TextBlob**, scoring 0.09/0.12, and used **LDA** for topic modeling(perplexity 1066), boosting marketing insights.
- Created a **Semantic Network** to identify the most prominent positive and negative words associated with the product.

Grocery Store Optimization | Python, Machine Learning

Academic Project

- Conducted **Chi-Square** test to analyze significant difference between sign up rate for cheaper expensive mailer of delivery club.
- Obtained 96% loyalty score accuracy, 93% behavior classification with **Regression** algorithms, significantly transforming store layout and marketing.

Publications

Dr.Megharani Patil, Vatsal Kadakia, Yash Gupta, Harsh Doshi(2022); Automated Healthcare System using Gamification and AI based Chatbot; Computer Vision (Applications of Visual AI and Image Processing),vol 15,De Gruyter

Mendon, A., Patil, M., Gupta, Y., Kadakia, V., Doshi, H. (2023). Automated Healthcare System Using AI Based Chatbot. In: Balas, V.E., Semwal, V.B., Khandare, A. (eds) Intelligent Computing and Networking. Lecture Notes in Networks and Systems, vol 632. Springer, Singapore