

SAHIL SAINI

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EDUCATION

B Tech in CSE

Mumbai University

CGPA: 8.06

Aug 2020 - May 2024

M Tech in AI/ML

Symbiosis Institute of Technology

CGPA: 7.00

Aug 2024 - May 2026

SKILLS

- Programming:** Java, Python, SQL
- Data Engineering:** ETL, EDA, Machine Learning, MySQL, PL/SQL, MongoDB, Data Visualise
- Data Analyst:** Power BI, Matplotlib, Seaborn
- Software Development:** OOP, Data Structures, Algorithms, Operating Systems
- Technologies, Cloud & Tools:** JavaScript, React, Hibernate, JSP, Spring, Azure, PyTorch, TensorFlow, Machine Vision, GAN, Gen AI, NLP, NLTK, LLM, Git
- Soft Skills:** Leadership, Ethical Problem-Solving, Communication, curiosity, adaptability

PROJECTS

1. Stock Performance & Insights Analysis(Power BI, SQL, Financial Analysis, Data Visualization)

Role: Data Visualization Specialist & Financial Analyst

Responsibilities:

- Developed an interactive Power BI dashboard to analyze stock performance of major companies like Walmart, Apple, and Amazon.
- Conducted financial and operational analysis, integrating free cash flow, net profit margins, CEO compensation, and workforce trends.
- Implemented historical data analysis and trend mapping to provide real-time insights for investors and analysts.
- Designed dynamic visualizations for easy comparison of stock growth indicators.

2. Retail Business Intelligence for Supermart(Power BI, DAX, SQL, ETL, Data Visualization)

Role: Data Analyst

Responsibilities:

- Designed and developed an interactive Power BI dashboard for Super Mart, enabling real-time sales forecasting and performance monitoring .
- Implemented ETL processes to ensure data accuracy and consistency.
- Utilized DAX functions to calculate key performance metrics, including average order-to-ship time, profit trends, and customer segmentation analysis.
- Integrated slicers and interactive visualizations to enhance user experience and decision-making.

3. Movie Recommendation Chatbot(Python, Azure AI, NLP, Machine Learning, Flask)

Role: Machine Learning Engineer & NLP Developer

Responsibilities:

- Developed an AI-powered chatbot for personalized movie recommendations based on actors, genres, and release years.
- Utilized Azure's semantic analysis API to improve recommendation accuracy by 85%, enhancing user experience.
- Designed and implemented collaborative filtering & content-based filtering models to refine recommendations.
- Conducted A/B testing to validate the chatbot's effectiveness, leading to a 30% increase in user engagement.

4. E-commerce Shopping Website(Java, Spring Boot, MySQL, React, JavaScript, Hibernate)

Role: Full-Stack Developer

Responsibilities:

- Engineered a scalable e-commerce platform with separate modules for customers and administrators.
- Managed a database of over 500 products, reducing inventory errors by 20% through optimized SQL queries.
- Developed a user-friendly shopping cart and checkout system, increasing customer retention by 15%.

- Optimized backend queries to improve page load speed by 30%, enhancing website performance.

5. Pill and Text Summarization (YOLO v5, PyTorch, Tesseract OCR, NLP, Deep Learning, Wikipedia API)

Role: Computer Vision & NLP Engineer

Responsibilities:

- Developed a computer vision system using YOLO v5 and PyTorch, achieving 90% accuracy in text recognition on pill packages.
- Integrated Tesseract OCR for real-time text extraction and summarization, improving information retrieval efficiency by 50%.
- Designed an automated summarization pipeline, reducing content length by 70% while maintaining key information.

6. Building a Music App for Composers (Python, Librosa, Random Forest, MLP, KMeans Clustering) (Spotify Dataset, HuggingFace Text2Music)

Role: AI & Machine Learning Developer

Responsibilities:

- Designed an AI-driven music app that assists composers in song recommendations and musical note generation.
- Leveraged IRMAS and Spotify Million Song Dataset for feature extraction using Librosa and MFCC scaling.
- Developed an instrument classification model using SVC, Random Forest, and MLP, achieving a macro recall of 44.7%.
- Proposed a hybrid clustering algorithm for efficient temporal data handling in music composition.

7. Disease Diagnosis Prediction using ML & EDA (Python, Spacy, Pandas, Matplotlib, Seaborn, Scikit-learn, Logistic Regression, Random Forest, XGBoost)

Role: Data Scientist & Healthcare Analyst

Responsibilities:

- Developed a machine learning pipeline to predict the likelihood of various diseases based on patient medical attributes.
- Performed Exploratory Data Analysis (EDA) using Seaborn and Matplotlib to uncover trends, correlations, and anomalies in healthcare datasets.
- Cleaned and preprocessed data using Pandas, handling missing values and encoding categorical features for ML model readiness.
- Trained and compared multiple models, including Logistic Regression, Random Forest, and XGBoost, achieving high accuracy and precision for disease classification.
- Delivered insights to support data-driven decisions in preventive healthcare and early diagnosis.

CERTIFICATIONS

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|--------------------------------|----------------------|----------|
| • Completed Java with MySQL | Link | Jan 2023 |
| • Completed Microsoft Power BI | Link | Dec 2024 |

Achievements

- Gold Badge in Java & Silver Badge in MySQL & Python ([HackerRank](#))
- Participated in Code Cubicle 2.0 hackathon ([Link](#))
 - Educate consumers on the hidden realities of product labeling, highlighting marketing tactics that emphasize benefits (e.g., "Source of Vitamin C") while downplaying less favorable aspects (e.g., high added sugar content).
 - Empower consumers to make informed, healthier choices by offering a multilingual application that uncovers and explains these labeling discrepancies.