

Alisha Shaikh

Entry-Level ML Engineer & UI/UX Developer

✉ alisha.sk9867@gmail.com 📞 9867248817 📍 worli lotus, Mumbai 📅 13th October, 2004

🌐 <https://www.linkedin.com/in/alishashaikh-ai/> 🐙 <https://github.com/Alisha-Shaikh98>

🎓 EDUCATION

Bachelors on Science in Information Technology (BSc.IT)

Sasmira's Institute of Commerce & Science

CGPA: 9.6

08/2022 – 05/2025

Mumbai, Maharashtra

💼 PROFESSIONAL EXPERIENCE

Administrative Staff - Sasmira Institute of Commerce & Science (SICS) (Internship)

05/2023 – 07/2023

Mumbai, Maharashtra

Worked with Admin Staff for admissions purposes, designed social media posts, banners, infographics, etc. Also contributed to important presentations, enhancing the institution's branding and communication skills.

📁 PROJECTS - DEVELOPMENT

Medical Data Visualizer 🔗

- Developed a data analysis and visualization tool to explore medical health indicators using real-world patient data by handling missing values and outliers.
- Generated visual insights using Matplotlib to show correlations between BMI, cholesterol, glucose levels, and lifestyle choices.
- Demonstrated understanding of data Preprocessing, EDA (Exploratory Data Analysis), and health data interpretation and thus granting certificate as part of FreeCodeCamp's "Data Analysis with Python" certification track

Sea Level Prediction (Time Series) 🔗

- Built a collaborative filtering-based book recommendation engine in Python using scikit-learn's Nearest Neighbors algorithm and cosine similarity to deliver personalized suggestions.
- Preprocessed and optimized large-scale datasets (Books, Users, Ratings) by removing sparse data, filtering high-activity users, and constructing a pivoted user-item rating matrix for efficient computation.
- Delivered accurate recommendations from a dataset of over 270,000 ratings, enhancing system efficiency through feature engineering and similarity search optimization.

Spam Detection Classifier 🔗

- Build a spam classifier using a dataset of SMS messages labeled as spam or ham.
- Preprocessed text (cleaning, Tokenization, Stopwords removal) and Vectorized using TF-IDF.
- Trained a Naive Bayes model to classify messages with ~98% accuracy.
- Conceptually applicable to email filtering and other text-based spam detection systems.

Sentiment Analyzer 🔗

- Built a sentiment analysis model using Scikit-Learn and Textblob to understand sentiments through input text.
- Applied text Preprocessing (Tokenization, Topwords, Lemmatization).
- Displays text polarity score and divided sentiments into positive, neutral and negative.

Air Quality Index

- Developed an interactive AQI visualization dashboard using Python, Pandas, Plotly, and Streamlit, enabling real-time analysis of air quality trends across multiple cities.
- Implemented data preprocessing and pollutant-based AQI scoring algorithms (PM2.5, NO₂, SO₂, etc.) to standardize inconsistent datasets and enhance analytical accuracy.
- Designed dynamic, color-coded visualizations and geo-mapped insights to highlight pollution hotspots, improving user engagement and environmental awareness.

Iris Dataset Interactive Visual

- Filter by flower species (*Setosa*, *Versicolor*, *Virginica*)
- Adjust sepal and petal measurements with sliders to observe patterns
- View interactive Plotly scatter plots, box plots, and Matplotlib charts showing relationships between sepal length/width and petal length/width.

Cast Your Vote

Black Book Project

- Developed a responsive voting platform to enhance public engagement across devices.
- Presented research on system design, pros/cons, workflows, and UI at the International Hybrid Conference on Sustainability.

PROJECTS - UI/UX

Fruits Web UI (Figma)

Designed a colorful, fruit-themed web interface with responsive layouts and consistent navigation for product pages like strawberry, kiwi, blueberry, and mixed fruit.

Fruit Cider Product UI (Figma)

Created a clean, product-focused landing page design for lemon, pear, and cherry fruit ciders, using bold typography, minimal layout, and matching background color themes. Optimized for simple e-commerce or beverage branding.

LEADERSHIP EXPERIENCE

Sasmira's Institute of Commerce & Science

06/2022 – 05/2024

Class Representative

Mumbai, Maharashtra

- Coordinated communication between students and faculty.
- Maintained Discipline amongs students.

Sasmira's Institute of Commerce & Science

06/2023 – 05/2024

Co-coordinator of BSc.IT Club

Mumbai, Maharashtra

- Organized tech workshops and coding competitions for students.
- Organized Coding Quiz competition.

Sasmira's Institute of Commerce & Science

06/2023 – 05/2024

Deputy General Secretary (Student Council)

Mumbai, Maharashtra

- Led student council initiatives and organized cultural events for the institute.
- Worked with my own Technical team for graphic designs and templates, PPT handling.

PUBLICATIONS

Cast Your Vote (Published Research Paper)

25/02/2025

International Hybrid Conference – “Sustainability and Shaping the Future by Adapting to a Changing Landscape”

- Presented and published "Cast Your Vote" at the International Hybrid Conference on Sustainability and Shaping the Future by Adapting to a Changing Landscape. The paper detailed the purpose, advantages, and limitations of a digital voting system, including workflow diagrams, UI designs for desktop/mobile/tablet, and system implementation, concluding with recommendations for improved accessibility and security.

CERTIFICATES

AWS Educate – Introduction to Generative AI | Amazon Web Services (AWS)

Issued Aug 2025

Skills: Artificial Intelligence (AI), Machine Learning, Generative AI, Prompt Engineering

AWS Educate –Machine Learning Foundations | Amazon Web Services (AWS)

Issued Aug 2025

Skills: AWS Cloud Services, EC2, S3, IAM, Cloud Computing Fundamentals

Google – Machine Learning Specialization | Coursera

Issued Jul 2025

Skills: Machine Learning, AUC, ROC, Confusion Matrix, Linear Regression, Logistic Regression, Precision, Accuracy, TensorFlow, Classification

Introduction to SQL | Kaggle

Issued Jul 2025

Skills: SQL, BigQuery, Queries, Joins, Common Table Expressions (CTE)

Tata - Data Visualisation with Python | IBM

Issued Jul 2025

Skills: Data Visualization, Matplotlib, Seaborn, Plotly, Dashboard Design

Artificial Intelligence Fundamentals | IBM

Issued Jun 2025

Skills: Artificial Intelligence, IBM Watson, Jupyter Notebook

Deloitte Australia - Data Analytics Job Simulation | Forage

Issued Jun 2025

Skills: Data Analysis, Google Colab, Jupyter Notebook, Data Modelling, Exploratory Data Analysis (EDA).

Machine Learning | Kaggle

Issued Jun 2025

Skills: Model Training, Model Evaluation, Data Processing, Model deployment, Scikit-learn, TensorFlow, keras, Matplotlib, Seaborn, numpy, Testing.

Data Analysis with Python | freeCodeCamp

Issued May 2025

Skills: Data Visualization, Data Manipulation, Pivot, Python Programming, Jupyter Notebook, Google Colab, Data cleaning, Data processing.

SKILLS

Python

Machine-Learning

Pandas

Scikit-learn

Seaborn

HTML

CSS

JS

Streamlit

UI/UX

React

Tensor Flow

CURRENTLY LEARNING

UI/UX Developer

- UI/ UX design
- Web interface through html/ css/ js
- Exploring new Art/Design Styles
- Graphic templates& banner designs

Aspiring AI & ML Engineering

- Tensor Flow & Deep Learning (online courses)
- Project Developments (ML & Python)
- Learning React
- Learning Streamlit & Pytorch