ANISH SINGH

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GitHub: github.com/anishsingh19   **Portfolio:** anish-portfolio-iota.vercel.app/

SUMMARY

AI and Data Science graduate with hands-on experience in machine learning, data analysis, and full-stack AI system development. Proficient in Python, SQL, FastAPI, and Streamlit. Seeking entry-level roles in Data Science, ML Engineering, or AI development.

EXPERIENCE

Applied AI Intern

CSRBOX × AICTE × IBM SkillsBuild | Dec 2025 – Jan 2026

- Completed a 6-week virtual, industry-aligned Applied AI internship focused on Generative AI, Agentic AI, and AI-powered workflows.
- Gained hands-on experience with Python, IBM watsonx, IBM Granite models, Google Colab, and AI agent design.
- Designed and implemented a capstone Applied AI project aligned with real-world problem statements and UN Sustainable Development Goals (SDGs).

Data Analytics Intern

Practo Technologies Pvt. Ltd. × Mentormind | Aug 2024 – Oct 2024

- Analyzed large-scale health and demographic datasets to identify common factors and patterns associated with heart disease.
- Performed EDA to uncover trends, correlations, and data quality issues.
- Applied ML techniques to evaluate health indicators and disease risk relationships.

PROJECTS

AI Services Toolkit – Multi-Modal AI System

Tech Stack: Python, FastAPI, Streamlit, Hugging Face Transformers, PyTorch

- Built full-stack multi-modal AI platform (FastAPI backend + Streamlit frontend) integrating Hugging Face pipelines.
- Implemented NLP and multi-modal services: sentiment analysis, text summarization, translation, image captioning, speech-to-text, text-to-speech.
- Implemented system-level features such as API call history, user preferences, favorites, and a monitoring dashboard to improve usability and system transparency.

Smart Predictive Maintenance System

Tech Stack: Python, TensorFlow, Keras, Streamlit, Reinforcement Learning, SQLite

- Designed hybrid system combining LSTM-based deep learning and RL for predictive maintenance recommendations.
- Engineered TensorFlow/Keras LSTM model to predict machine health trends and failure patterns from time-series data.
- Simulated RL-based policy to recommend optimal maintenance actions based on system health states.
- Built interactive Streamlit dashboard with machine health monitoring, recommendations, and SQLite logging.

E-commerce Analytics & Sales Forecasting System

Tech Stack: Python, Pandas, NumPy, Streamlit, Plotly, Facebook Prophet

- Built end-to-end analytics system with interactive dashboards for sales performance, customer behavior, and KPIs.
- Created data pipelines (Pandas/NumPy) to clean, aggregate, and prepare transactional sales data for analysis and forecasting.
- Implemented a time-series sales forecasting model using Facebook Prophet to predict future sales trends and support inventory and revenue planning.
- Designed interactive dashboards using Streamlit and Plotly to visualize sales trends, forecast results, and performance insights.

Customer Churn Prediction System

Tech Stack: Python, Pandas, NumPy, Scikit-learn, Streamlit

- Developed an end-to-end customer churn prediction system to identify customers at risk of leaving based on behavioral and transactional data.
- Performed data preprocessing and feature engineering to prepare customer-level datasets for modeling.
- Trained and evaluated machine learning classification models to predict churn and analyze key factors influencing customer retention.
- Built an interactive Streamlit application to visualize churn predictions and insights for data-driven retention strategies.

Additional Projects

- AI-Powered Trading System
- COT-SPARQL Query Generator
- Netflix Movies & TV Shows Analysis
- Hindi Language Chatbot

CERTIFICATIONS

Data Visualization
Anudip Foundation × Mettl | 120 hours | Grade A | Aug 2024

Big Data Foundations – Level 1
IBM | Jul 2025

- Completed foundational training in Big Data concepts, data ecosystems, and distributed processing.
- Covered core technologies including Hadoop, Spark, and Big Data fundamentals through IBM SkillsBuild modules.

SKILLS

Programming Languages & Frameworks: Python (NumPy, Pandas), SQL, FastAPI, Flask

Machine Learning: Scikit-learn, XGBoost, Random Forests, SVMs, Regression, Classification, Clustering, Feature Engineering, Model Evaluation, SMOTE, Reinforcement Learning

Deep Learning: TensorFlow, PyTorch, Keras, CNNs, RNNs (LSTMs, GRUs), Transformers, Transfer Learning, GANs

MLOps & Deployment: Docker, Git, REST APIs, Render, Hugging Face Spaces

Big Data & Databases: PostgreSQL, MySQL, MongoDB, SQLAlchemy, SQLite3

Data Visualization & BI: Plotly, Matplotlib, Seaborn, Dash, Streamlit, Tableau (conceptual)

Specialized Tools & Techniques: Prophet, Whisper API, OpenAI API, LLMs (ChatGPT), Financial Modeling, Monte Carlo Simulation, A/B Testing, Alpaca API

EDUCATION

Bachelor of Engineering in Artificial Intelligence & Data Science
A. C. Patil College of Engineering, Navi Mumbai
2021 – 2025 | CGPI: 7.3

Higher Secondary (XII), Science
Mahatma Gandhi Mission's High School & Junior College, Nerul
2019 – 2021 | 85.33%

Secondary School (X)
Dr. D. Y. Patil's Dnyanpushpa Vidya Niketan & Jr. College, CBD Belapur
2019 | 84.80%