Siddharth Pratap Singh

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Projects

AI Interview Feedback Bot | *Python , LLMs , Docker*   **May 2025 - June 2025**
- Developed Resume Parsing Engine: Built with spaCy to extract skills/experience (Scikit-learn, Pandas) .
- Implemented multimodal analysis: speech recognition (SpeechRecognition), sentiment scoring, and emotion detection.
- Role-Matching Model: Trained Linear SVM on 13K+ job descriptions (F1-score: 0.82) .
- Automated reports saving 8+ hours/week in manual evaluation time (PDFKit).
- Deployed secure containerized application with authentication (Docker).
- GitHub Repository Link: **https://github.com/Sid-istic/AI-Interview-Bot**

End-to-End Customer Churn Prediction System | *Python , Power BI , ML*   **May 2025 - May 2025**
- Reduced incorrect churn alerts by 22% by tuning class-weighted XGBoost on imbalanced data.
- Optimized model with GridSearchCV and engineered 15+ features (e.g., usage trends, payment latency).
- Used SHAP for feature impact explanation and created customer risk segments.
- Deployed interactive dashboard with Power BI and Streamlit Cloud
- GitHub Repository Link: **https://github.com/Sid-istic/End-to-End-customer-Churn**

QR Based Authentication for Ecommerce | Python , OpenCV   **March 2025 - April 2025**
- Generated dynamic QR codes for products by parsing product IDs from a JSON dataset and saving 100% coverage in a centralized image directory.
- Built a real-time QR code scanner using OpenCV and Pyzbar to detect and decode product QR codes via webcam input.
- Fetched corresponding product metadata (name, price, brand, stock, rating, description) and overlaid details onto product images for instant on-screen visualization.
- GitHub Repository Link: **https://github.com/Sid-istic/QRAUTH**

Certificates

Natural Language Processing   **May 2025**
Hugging Face — Certificate Link

Supervised Machine Learning: Regression and Classification   **December 2024**
Coursera — Certificate Link

Mastering Data Structures and Algorithms   **August 2024**
Skill Development @LPU — Certificate Link

Introduction to Python   **November 2022**
Hacker Rank — Certificate Link

Technical Skills

Machine Learning: Scikit-learn, XGBoost, Hyperparameter Tuning, GridSearchCV, SHAP, Synthetic Data

NLP & Speech: Hugging Face Transformers, spaCy, Text Classification, SpeechRecognition, TTS, LangChain

Data & Visualization: Power BI, Streamlit, Matplotlib, Pandas, NumPy

MLOps & Deployment: Docker, Git, CI/CD (GitHub Actions), Streamlit Cloud

Tools & IDEs: VS Code, PyCharm, Google Colab, GitHub

Education

Lovely Professional University Punjab   **2022 – 2026**
Computer Science and Engineering — CGPA: 7.29   *Jalandhar, Punjab*

Ryan International School   **2021 – 2022**
12th with Science — Percentage: 80 %   *Rai Bareli, Uttar Pradesh*

Ryan International School   **2020 – 2021**
10th with Science — Percentage: 83.25 %   *Rai Bareli, Uttar Pradesh*