



Kriish Solanki

Bachelors Of Technology
Computer Science & Engineering
Minor in Financial Technology (Fintech)

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🐙 GitHub Profile

🌐 LinkedIn Profile

EDUCATION

•Manipal Institute of Technology, Karnataka

CGPA: 8.37 (Ranked in the top 5% of my graduating batch)

Semester-wise GPA: 7.36, 7.18, 8.54, 9.38, 8.76, 8.80, 8.80

B.Tech CSE | 2021-2025

WORK EXPERIENCE

•Jainam Broking Limited, Gujarat

Quantitative Strategy & Development Intern

February 2025 - Present

- Developing and implementing quantitative strategies.
- Developing a strategy execution platform using Django, FastAPI, MongoDB, and Clickhouse, integrating APIs to fetch, process, and analyze financial data for backtesting, generating buy/sell signals, and visualizing profit/loss trends.

•ThoughtFocus, Bangalore

Software Engineering Intern

July 2024 - August 2024

- Contributed to the Gen3 Transaction Switch Platform as part of the BDO team.
- Gained experience in transaction processing and technology integration, working on mPOS solutions, particularly TFPay's payment processing.

PROJECTS

• PostIT

Department E-newsletter Management System

Django, HTML, Bootstrap, jQuery

- Developed a scalable web application to streamline departmental communication and content management.
- Implemented user authentication, registration, and management, along with RBAC, to ensure secure access, post creation/upload, subscription handling, and automated email notifications.
- Built a robust Django backend with SQLite3 for secure data storage and seamless integration.

•TTS Distinction in Human Voices

Human Speech Authentication Model

Python, TensorFlow, Deep Learning (CRNN)

- Developed a deep learning model to differentiate human speech from text-to-speech (TTS) systems.
- Utilized Convolutional Recurrent Neural Networks (CRNN) and extracted key features (MFCCs, mel-spectrograms, Chroma).
- Achieved an F1-score of 0.88 and an Equal Error Rate (EER) of 18.89% through hyperparameter tuning, enhancing secure voice authentication.

• Non-Touch Input Device

Hand Gesture Control System

Python, OpenCV, TensorFlow

- Engineered a gesture-based interface for hands-free PC control using MediaPipe for hand tracking.
- Developed a quick-access toolbar with character recognition for seamless navigation and interaction.
- Implemented a client-server communication model, enabling gesture-based control across multiple devices.

• Loan Loss Prediction Using ARIMA

Risk Management & Forecasting Tool

Python, Time Series Forecasting, Data Analysis

- Developed a Credit Risk Indicator (CRI) using outstanding loan balances at various DPD stages and roll rates, applying ARIMA modeling for loan loss forecasting.
- Ensured stationarity using ADF tests and differencing, optimized ARIMA parameters via ACF/PACF analysis, and validated model reliability through residual diagnostics, including normality, distribution, and autocorrelation checks.

ACTIVE RESEARCH

- **Credit Card Fraud Detection using Homomorphic Encryption:** Leveraged Machine learning & Deep Learning to detect fraud while preserving privacy with homomorphic encryption.

TECHNICAL SKILLS

• Languages: Python, SQL, C

• Libraries/Frameworks: Scikit-Learn, Pandas, NumPy, Matplotlib, OpenCV, Django, FastAPI

• Relevant Coursework:

- | | | |
|-------------------------------------|--|---|
| – Database Systems | – Deep Learning | – Discrete Mathematics & Algebraic Structures |
| – Data Structures & Applications | – Operating Systems | – Computer Networks |
| – Design And Analysis Of Algorithms | – Financial Econometrics | – Probability Theory & Statistical Methods |
| – Object Oriented Programming | – Engineering Economics & Financial Management | |
| – Machine Learning | | |