



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

•Scholar English Academy, Surat

Percentage: 93.8%

Senior School, CBSE | 2021

•Delhi Public School, Surat

Percentage: 94.6%

Secondary School, CBSE | 2019

RELEVANT PROJECTS

•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.

• Loan Loss Prediction Using ARIMA

Risk Management & Forecasting Tool

Python, Time Series Forecasting

- 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 via ADF tests and differencing techniques to enhance model reliability, and performed ACF/PACF analysis for optimal parameter selection.
- Conducted residual diagnostics, including normality assessment, distribution validation, and autocorrelation analysis.

• JioStock Insights

Quantitative Analysis of Jio Stock Performance vs. Market Indices

Python

- Conducted sensitivity analysis of Jio stock vs. NIFTY & SENSEX to assess market performance.
- Implemented SMA and EWMA to evaluate and forecast stock trends.
- Applied linear regression, residual analysis, and volatility assessments to derive market correlation insights.

• 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.

RELEVANT COURSES & CERTIFICATIONS

• Neural Networks and Deep Learning: DeepLearning.AI, Coursera

• Convolutional Neural Networks: DeepLearning.AI, Coursera

• Finance for Non-Financial Professionals: University of California, Coursera

ACTIVE RESEARCH

- **Credit Card Fraud Detection using Homomorphic Encryption:** Leveraged machine learning for fraud detection, utilizing GenAI & other oversampling techniques for synthetic data generation, while preserving privacy with homomorphic encryption.

TECHNICAL SKILLS

• Languages & Tools: Python, SQL, Excel (Basic Proficiency)

• Relevant Coursework:

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|--------------------------------------------|------------------------------------------------|-------------------------------------------------|
| – Database Systems | – Fintech Services | – Multivariate Calculus & Mathematical Analysis |
| – Machine Learning | – Engineering Economics & Financial Management | – Data Structures & Applications |
| – Deep Learning | – Discrete Mathematics & Algebraic Structures | – Design And Analysis Of Algorithms |
| – Probability Theory & Statistical Methods | – Linear Algebra & Differential Equations | – Object Oriented Programming |
| – Financial Management | | – Technology for Finance |
| – Financial Econometrics | | |