



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

RELEVANT WORK EXPERIENCE

•Jainam Broking Limited, Gujarat

Quantitative Research & Development Intern

February 2025 - Present

- Conducting research on financial markets and implementing algorithmic trading strategies, progressing towards developing proprietary strategies.

•ThoughtFocus, Bangalore

Software Engineering Intern

July 2024 - August 2024

- Worked on the Gen3 Transaction Switch Platform, gaining experience in transaction processing & mPOS solutions.

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, optimized parameters using ACF/PACF analysis
- Conducted residual diagnostics, including normality assessment, distribution validation, and autocorrelation analysis.

• 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.

COURSES & CERTIFICATIONS

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

•Convolutional Neural Networks: DeepLearning.AI, Coursera

•Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization: DeepLearning.AI, Coursera

ACTIVE RESEARCH

•Credit Card Fraud Detection using Homomorphic Encryption: Leveraged machine 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, Hadoop, CUDA, MPI, OpenCL

•Relevant Coursework:

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|--|---|--|
| – Database Systems | – Discrete Mathematics & Algebraic Structures | – Data Structures & Applications |
| – Machine Learning | – Linear Algebra & Differential Equations | – Design And Analysis Of Algorithms |
| – Deep Learning | – Multivariate Calculus & Mathematical Analysis | – Distributed Systems |
| – Probability Theory & Statistical Methods | | – Parallel Computer Architecture and Programming |