



## 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)

B.Tech CSE | 2021-2025

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

## WORK EXPERIENCE

### •ThoughtFocus, Bangalore

July 2024 - August 2024

Software Engineering Intern

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

## PROJECTS

### •TTS Distinction in Human Voices

Python, TensorFlow, Deep Learning (CRNN)

Human Speech Authentication Model

- 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

Python, Time Series Forecasting

Risk Management & Forecasting Tool

- 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

Python, Opencv, TensorFlow

Hand Gesture Control System

- 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.

### • PostIT

Django, HTML, Bootstrap, jQuery

Department E-newsletter Management System

- 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.

## COURSES & CERTIFICATIONS

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

•Convolutional Neural Networks: 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:

- |  |   |  |
|--|---|--|
| – 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 |