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

- **Scholar English Academy, Surat**

  Percentage: 93.8%   Senior School, CBSE | 2021

- **Delhi Public School, Surat**

  Percentage: 94.6%   Secondary School, CBSE | 2019

WORK EXPERIENCE

- **Jainam Broking Limited, Gujarat**   *February 2025 - Present*

  Quantitative Strategy & Development Intern

  - Designed and implemented trading strategies using financial indicators and technical analysis..
  - Built a backtesting and execution platform with Django, FastAPI, and MongoDB; integrated live APIs for real-time data processing, signal generation, and performance visualization.

- **ThoughtFocus, Bangalore**   *July 2024 - August 2024*

  Software Engineering Intern

  - 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

- **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.

- **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.

- **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.

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, Java

- **Libraries/Frameworks**: Django, FastAPI, Flask, MongoDB, Scikit-Learn, OpenCV, Matplotlib

- **Relevant Coursework**:
  - Data Structures & Applications
  - Design And Analysis Of Algorithms
  - Database Systems
  - Computer Networks
  - Object Oriented Programming
  - Distributed Systems
  - Machine Learning
  - Deep Learning
  - Embedded Systems
  - Compiler Design
  - Parallel Computer Architecture and Programming
  - Computer Organisation and Architecture
  - Android Application Development
  - Ethical Hacking and Cyber Security