

# MOHAMMED ADNAN KP

(+91) 9995097005 | [adnankp009@gmail.com](mailto:adnankp009@gmail.com)  
**LinkedIn** : [www.linkedin.com/in/adnankp](https://www.linkedin.com/in/adnankp)  
**GitHub** : <https://github.com/adnankp009>  
**Portfolio**: <https://adnankp009.github.io/portfolio/>  
Chennai, India

## Education

**M.S.C BIG DATA ANALYTICS** – Central University of Rajasthan – Rajasthan, India December 2022 - May 2024

**BACHELOR'S IN COMPUTER APPLICATION** – University of Calicut – Kerala, India May 2018 - April 2021

## Work Experience

**MACHINE VISION INTERN** – *Saint-Gobain* – Chennai, India December 2024 – Present

- Designed and validated computer vision logic for plant safety, enabling accurate and reliable violation detection.
- Implemented an innovative solution to detect violations without additional data annotation or model retraining, improving system efficiency.
- Implemented an auto-annotation pipeline using a pretrained model, reducing manual labeling efforts.
- Designed and optimized logic for an AutoML application, streamlining model selection and deployment.

**DATA ANALYST INTERN** – *G Data technology* – Kerala, India February 2024 – August 2024

- Enhanced operational efficiency for the Dr Live healthcare management solution by conducting data analysis, automating dashboard creation using python, and reducing report generation time.
- Developed and implemented a marketing analysis dashboard using Power BI, enabling targeted strategies and data driven decision making.
- Gathered and processed critical data on hospitals, clinics, and doctors using web scraping technology, ensuring accurate and comprehensive datasets.

## Projects

**HAND GESTURE RECOGNITION SYSTEM WITH VOICE FEEDBACK** June 2024

- Uses MediaPipe and machine learning for live hand gesture detection with instant visual and auditory feedback.
- Integrates text to speech (TTS) for vocalizing gestures, aiding visually impaired users and hands free interaction.
- Combines static pose classification and motion tracking to recognize both held and sequential gestures for broader applications.
- Tech Stack:** OpenCV, MediaPipe, pyttsx3

**PREDICTIVE ANALYSIS OF STOCK PRICES WITH LSTM** Aug 2024

- Built an LSTM model in TensorFlow for multi-step stock price prediction, optimizing accuracy with hyperparameter tuning.
- Developed a Flask API with CORS to serve predictions, integrating real-time market data from Yahoo Finance and interactive endpoints for trends and analysis.
- Designed a modular system for live market visualization with multi-timeframe predictions
- Tech Stack:** LSTM, TensorFlow, Flask, Flask-CORS, Rest API Principle

**ECONOMIC DATA ANALYSIS WITH PANDAS** March 2024

- Conducted data analysis using the FRED API to explore key economic indicators like the S&P 500, unemployment rates, and labor force participation.
- Analyzed historical economic metrics across U.S. states, focusing on seasonally adjusted unemployment data.
- Developed engaging visualizations including line plots, bar charts, and twin-axis graphs to identify trends and patterns.
- Provided insights into economic health by comparing state-level unemployment and labor force participation rates.

## Skills

• Python • SQL • R • HTML • Power-BI • Tableau • Excel • Hadoop • AWS • Data Visualization • Machine Learning  
• Django • Deep learning • NLP • Computer Vision