Kevin C. Panchal

[Portfolio](#) | [LinkedIn](#) | panchalkevin13@gmail.com | +91 95746 80061

Education

PANDIT DEENDAYAL ENERGY UNIVERSITY, Gandhinagar, India   *Aug 2018 – May 2022*
Bachelor of Technology in Computer Engineering **(CPI-9.45/10.0)**
- **Courses:** Calculus, Database Management System, Operating System, Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Natural Language Processing, Computer Vision.

Experience

PANDIT DEENDAYAL ENERGY UNIVERSITY, Gandhinagar, Gujarat   *Aug 2021 – Dec 2021*
Undergraduate Research Assistant
- Worked on the project titled "Digital Watermarking using Image Processing" using MATLAB under the guidance of Dr. Samir Patel, Associate Professor and HOD of Computer Department, PDEU.
- Implemented and analyzed various hybrid frequency domain techniques, especially APDCBT and DCT.

BISAG-N, Gandhinagar, Gujarat   *June 2021 – July 2021*
Internship as Python Programmer
- Conducted research, gathered data and created an algorithm that predicts the stock price, using the LSTM model.
- Built GUI for the same with the help of Python Tkinter.

Projects

PREDICTING CHURN FOR CREDIT CARD CUSTOMER, ML Project   *Jan 2022 – May 2022*
- Different machine learning algorithms were applied and compared with each other to get better prediction and to scoop out important features which are highly responsible for the final prediction.
- Created web application using flask which can be used by the bank to predict customer churn.
- **Technologies used**: Python, HTML, CSS, Flask

TEXT RECOGNITION BY AIR DRAWING, AI Project   *Jan 2021 – April 2021*
- It aims toward handwriting recognition to create a trained CNN model that recognizes gestures written in the air as text. Model users would be able to write characters in the air facing a web camera in real-time and those gestures will be transformed into text.
- **Technologies used**: Python, OpenCV, TensorFlow, Keras, HTML, CSS, JavaScript

REAL-TIME ENGLISH TO HINDI LANGUAGE TRANSLATOR, NLP   *Jan 2021 – April 2021*
- Developed an attention-mechanism based Neural Machine Translation model using a Transformer which can translate English to Hindi.
- **Technologies used**: TensorFlow, Keras, NLTK, Neural Machine Translation, NLP

VISUALIZATION OF BELADY'S ANOMALY, Page Replacement Algorithm   *Aug 2020 – Dec 2020*
- Implemented GUI for different page replacement algorithms namely: FIFO, Second Chance, Random Page Replacement, LIFO and Optimal Page Replacement, was developed.
- **Technologies used**: Python, Tkinter, Matplotlib, NumPy

Publication

- J. Patel, U. Mehta, K. Panchal, D. Tailor and D. Zanzmera, "Text Recognition by Air Drawing," 2021 Fourth International Conference on Computational Intelligence and Communication Technologies (CCICT), 2021, pp. 292-295, doi: [10.1109/CCICT53244.2021.00061](https://doi.org/10.1109/CCICT53244.2021.00061).

Technical Skills

- **Programming Languages**: Python, C, C++, Java, SQL
- **Packages**: TensorFlow, Keras, Matplotlib, NumPy, Pandas, Ploty, sklearn, OpenCV, Tkinter

- **Statistics/Machine Learning**: Linear/Logistic Regression, Support Vector Machine, Decision Tree, Random Forest, AdaBoost, K-Means Clustering
- **Database**: MySQL, Xampp
- **GUI Toolkit**: Python Tkinter, Flutter
- **Web Development**: HTML, CSS, JavaScript, PHP, Bootstrap
- **Frameworks/Tools**: Flask, Git
- **Soft Skills**: Problem Solving, Critical Thinking, Teamwork and Collaboration

Volunteer Work

- Volunteered at Rotary Eye Institute
  - Participated in different rural health prevention and awareness activities, and surveys.
  - Attended various free eye camps organized by the institute in rural areas.
- Active member of Computer Society of India (CSI) at PDEU since freshman year.
- Committee member of Logistics Department at Cube-i-Cult, cubing club, PDEU.

Certified Courses

- The Joy of Computing using Python by IIT Madras, NPTEL
- Standard Query Language (SQL) by Stanford University, Stanford Online
- Internet of Things by Pandit Deendayal Energy University, Capsule Courses
- Introduction to Smart Cities by Pandit Deendayal Energy University, Capsule Courses
- Hi-Tech Cyber Crime Investigation by CSI Student Branch, PDEU, Workshop