

## **Raj Atulbhai Patel**

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### **EDUCATIONAL QUALIFICATION:**

#### **Master's in Computer Science**

University of the Pacific, Stockton, California

Expected May 2024

GPA:3.56/4

**Relevant Coursework:** Advance Algorithm, Data Science, Business Analytics, Techniques in Research, Machine Learning.

#### **Bachelor's in Computer Engineering**

LDRP Institute of Technology and Research, Gujarat, India

Sept 2017 - May 2021

CGPA: 8.72/10

**Coursework:** Operating System, Computer Network, Data Structure and Algorithm, Database Management System, Design Analysis and Algorithm, Communication Skills, and Personal Development.

### **ACADEMIC PROJECTS:**

#### **Speech-to-Text Summarization and Analysis:**

- Developed a machine learning model that can accurately convert speech to text and summarize the text.
- Trained the machine learning model using a large dataset of transcribed audio and text.
- Used natural language processing (NLP) algorithms to analyze the text and extract key points for summarizing the text.
- Tested the model's accuracy in summarizing audio and use the results to refine the model and improve its performance.

#### **Speech-to-Sign Translation:**

- Built a machine learning model that can properly summarize the speech and transform speech to sign.
- Created a dataset of spoken language and corresponding sign language translations and This dataset used to train the model and to measure the accuracy of the system.
- Used a supervised learning technique to train the model using the dataset. After the model is trained, evaluated its accuracy using a validation dataset.
- Analyzed the model's ability to accurately summarize speech and use the results to enhance the model's performance.

#### **Movie Recommender system:**

- Developed a content-based recommender system using a collaborative filtering technique.
  - Utilized Natural Language Processing (NLP) techniques to extract features from user-generated reviews.
  - Implemented the system using Python, Scikit-learn, and TensorFlow.
- <https://github.com/rajpatel1904/Movie-Recommend-system.git>

### **PROFESSIONAL EXPERIENCE:**

#### **Python Developer: Internship**

Aug 2021-Jan 2022

#### **Shree Hari Technology, India**

- Developed a stock management system using the Django web framework.
- Created a database schema to store stock and order information and Developed models to represent the database entities.
- Developed forms to capture and update stock information.
- Configured the application for deployment on a web server.

### **TECHNICAL SKILLS:**

**Programming Languages:** Python, R, C, Java, C++, HTML, CSS, JavaScript, SQL

**Software/Framework/Libraries:** NumPy, Pandas, Django, React.js, Node.js,

**Database Management:** MySQL, MongoDB

**Version Control:** Git

**Operating System:** Windows, Linux, MacOS

**Soft Skills:** Critical Thinking, Leadership, Team Management, Communication

### **EXTRACURRICULAR ACTIVITIES:**

- Actively participated in “**Smart India Hackathon-2020**” organized by “Student Start-up and Innovation Policy (SSIP) and Gujarat Knowledge Society”.