

# AYAN PATEL

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## EDUCATION:

**University of Southern California, Los Angeles, CA**

**Jan 2022-Dec 2023**

*Master of Science in Computer Science*

*GPA 3.50/4.0*

**Courses:** Analysis of Algorithms, Database Systems

**Gujarat Technological University, India**

**Aug 2015-May 2019**

*Bachelor of Engineering in Computer Engineering*

*GPA 9.19/10.0*

**Courses:** Data Structures, Algorithm Design and Analysis, Operating Systems, Artificial Intelligence, DBMS, OOP Principles

## TECHNICAL SKILLS:

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

**Databases:** MySQL, Oracle Database 12C, PostgreSQL

**Libraries and Frameworks:** Angular 7+, Angular Material UI, Bootstrap, Flask, RxJS, NumPy, ReactJS, Pandas, NetworkX, Sklearn, NLTK, Matplotlib

**Tools and Technologies:** NodeJS, Google Cloud Platform (GCP), AJAX, GIT, JIRA, GitHub, NPM, Swagger UI, Visual Studio Code, Eclipse, Windows, Linux

**Methodologies:** Agile

## WORK EXPERIENCE:

**Project Engineer, Wipro Ltd., India**

**Jul 2019-Nov 2021**

- Developed single page application for budget estimate/expenditure of Gujarat state and for payroll of 185K+ Gujarat state govt. employees using Angular 10, Angular material UI, Typescript, HTML5, CSS3, Bootstrap 4 along with API integration.
- Involved in complete Software Development Life Cycle including Requirement Analysis, Design, Implementation, and Testing and followed AGILE methodology.
- Worked in both prototyping and development phase for UI designing and API integration respectively.
- Worked on manipulation of Observable/Promise data received from REST API calls.
- Designed various abstract interfaces and classes to construct business logic.
- Solved build time errors and performed build deployment and code refactoring for older designs.

## PROJECTS:

**Social Network (Instagram) Graph Link Prediction** (*Python, Pandas, Networkx, Sklearn, NumPy*)

- Predicted missing links/edges in graph based social network to recommend a user to other user.
- Aligned the problem to a supervised learning problem based on graph based features like Page Rank, Adamic/Adar Index, etc., on 1.83M user's data.
- Used F1-score and binary confusion metric as performance metric.

**Stack Overflow Question Tag Prediction** (*Python, Pandas, Sklearn, NumPy, NLTK*)

- Predicted relevant tags for question based on its title and description, which are helpful in getting answers from respective technology experts.
- Mapped the problem as multilabel classification problem and used Logistic Regression to predict tags for each question.
- Accomplished Feature engineering and did data preprocessing by performing stemming, removing stop words, etc.

**Quora Question Pairs** (*Python, Pandas, Sklearn, NumPy, NLTK*)

- Developed a model to classify whether question pairs are duplicates of each other or not.
- Utilized key performance Indicator as LogLoss and secondary metric as Binary Confusion metric, also achieved LogLoss 0.35 on test data.
- Carried out data preprocessing and featurization task.

**Video Rental Inventory System** (*Java, Oracle Database 11G, Eclipse*)

- Developed a Java application, for video rental store, capable to manage video inventory as well as maintain customer profile in RDBMS schema.
- Executed CRUD operations such as add/remove customer profile, sell/rent video, receive rating from customer etc.

## LEADERSHIP & INVOLVEMENT:

- Led a team of 8 coordinators for Computer Engineering Students Association in organizing and initiating Coding fest events for university students that greatly improved my leadership and communication skills.

## HONORS & AWARDS:

- Received Academic Excellence Award (cert. by NASSCOM) for being top ranked student in Computer Engineering stream in the university from Shri Dewang Mehta I.T foundation for academic year 2017-18.
- Awarded Certificate of Academic Excellence 2016-17 for second rank in Computer Engineering department of our college.

## ADDITIONAL INFORMATION:

- U.S Permanent Resident (Green Card holder - No visa sponsorship required)