

# Divya Tanwar

## WORK EXPERIENCE

**R.K. Dyeing, Haryana, India**

Software Engineer

02/2018 – 11/2019

- Created and deployed an innovative HTML/CSS/JavaScript dashboard to capture and analyze essential dyeing metrics helped to increase 20% quality.
- Accelerated data-driven interactive graphs drive 30% increase in product quality and 15% reduction in process cycle time.
- Automated data collection process using Python Pandas library which reduced 10-12 hours of effort into 30 minutes scheduled batch job. Helped in designing relational databases to store processed data.
- Initiated a comprehensive Jupyter Notebook employing statsmodel and matplotlib libraries, enabling intuitive data analysis and visualizations, facilitating data-driven decision-making that propelled a 15% increase in customer satisfaction.
- Leveraged statistical analysis techniques including linear regression, clustering, and classification to uncover hidden patterns in collected data, leading to a 25% reduction in customer churn rate.

**Freelancer.com, Haryana, India**

Software Engineer

01/2017 – 01/2018

- Implemented and optimized front-end architecture, REST API endpoints, and database operations for retail customers, streamlining processes and reducing page load time by 50%, resulting in a 15% increase in user engagement.
- Developed comprehensive unit test cases using JUnit to ensure robustness and reliability of business logic, decreasing testing time by 40% and enhancing application stability.

## PROJECTS

**Recipe Assistant Chatbot**

03/2024 – 05/2024

- Designed frontend webpages using Figma tool and implemented mockup screen using ReactJS and TypeScript. Improved website appearance using Material UI.
- Implemented backend of the application in Fast API which provides login, register, profile, creating assistant using OpenAI API and NoSQL database for persistence.
- Build chatbot to query healthy recipes based on user's prompt and used GitHub, Azure DevOps pipeline for maintaining and deploying python code in Azure cloud.

**Quantitative Evaluation of AI Recipes generated by LLM** 11/2023 – 05/2024

- Utilized A/B framework for prompt variants and model comparison in generating recipe from GPT models.
- Evaluated the generated recipe using OpenAI Assistant API(GPT-4) by fine-tuning prompts and measured the quality of recipe using cosine similarity,
- Compared the generated recipe's from GPT-4 for direction and ingredients with known recipe in dataset using cosine similarity.
- Used LLM based Name Entity Recognition to extract ingredients and string matching to find percentage of ingredient in compared to similar recipes found in known dataset.
- Performed calorie estimation comparison for LLM generated recipe and calories calculated from USDA Food Central API.

**Parking System**

10/2023 – 11/2023

- Developed REST APIs using Fast API framework in Python to implement an efficient parking system, resulting in a 40% reduction in parking transaction processing time and increased 30% in finding parking spaces.
- Engineered the seamless integration of KrakenD API gateway to enforce robust authentication and authorization protocols, bolstering security measures and protecting sensitive data from unauthorized access; reduced security incidents by 40%.

**Nutrition Facts for McDonald's Menu**

01/2023 – 05/2023

- Analyzed the McDonald dataset(<http://tinyurl.com/5henthxn>) using Rguroo, employing statistical techniques such as pie charts, histograms, scatter, box plots, regression, and clustering to identify key trends and patterns.
- Evaluated the association between fast food intake and energy levels; conclusive evidence emerged, rejecting the null hypothesis, and demonstrating a significant relationship between carbs and energy in the dataset.

## CONTACT

- San Jose, CA
- 404-268-7844
- [divya.tanwar@outlook.com](mailto:divya.tanwar@outlook.com)
- [linkedin.com/in/divya-tanwar26/](https://www.linkedin.com/in/divya-tanwar26/)
- [github.com/tanwardivya](https://github.com/tanwardivya)

## SKILLS

**Language, Frameworks & ML:**

- Java, Python, SQL, JavaScript
- Fast API, ReactJS, Typescript, NodeJS, React Native, OpenAI API
- NumPy, Pandas, Scikit-Learn, Statsmodel, Pytorch, Pyspark

**Cloud**

- AWS Lambda, DynamoDB, Azure Container Apps, Atlas Mongo DB, Azure Databricks

**Tools, Software, & CI/CD :**

- GitHub, IntelliJ, Visual Studio Code, Figma, Jupyter Notebooks
- GitHub Actions, Azure DevOps

## EDUCATION

- **California State University, Fullerton**  
Master's in science GPA – 3.5  
Computer Science  
Fullerton, CA – 05/2024

- **Maharshi Dayanand University, Rohtak**  
Bachelor's in technology GPA – 3.4  
Information Technology  
Haryana, India – 05/2015

## CERTIFICATIONS

- Certified Meta React Native Specialization on Coursera, 2023
- Certified AWS Fundamental Specialization on Coursera, 2023