

# Alay Patel

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## EDUCATION

### Master of Science, Information Technology

May 2026

Arizona State University, Tempe, AZ

CGPA: 4.00 / 4.00

Coursework: Advance Database Management System, Advanced Big Data Analytics/AI, AI into Cybersecurity, Data in the Cloud Info Tech, Data Visualization & Reporting for IT, Advance Info Systems Security

### Bachelor of Technology, Computer Engineering

June 2024

LDRP-ITR University, Gandhinagar, India

CGPA: 3.46 / 4.00

Coursework: Data Structure and Algorithms, Database Management System, Machine Learning, Web Development

## TECHNICAL SKILLS

**Programming Language:** Python, JavaScript, NativeJS, R, C/C++

**Frameworks & Libraries:** ReactJS, React Native, Redux, NodeJS, Bootstrap, LangChain, NumPy, Pandas, Matplotlib, Bokeh, Seaborn, Scikit-learn, NLTK, OpenCV, Keras

**Databases:** Oracle, SQL Server, MySQL, MongoDB (NoSQL), Firebase, DynamoDB

**Data Visualizations:** Tableau, Power BI, MS Excel (Pivot Table), Data Wrapper

**Tools:** Azure, AWS, Docker, GitHub, Databricks, Jupyter Notebook, Google Colab, Visual Studio, Spyder, Code Blocks, Slack, Notion, Figma, MS Office Suite(Excel, Word, Power Point)

**Machine Learning:** Regression, Classification, Clustering, Neural Network, Ensemble learning

## EXPERIENCE

### Data Platform & Interface Engineering Lead, NL Eats Community Outreach Inc.

June 2025 – August 2025

- Developed responsive, **ReactJS-powered front-end application** integrating **Tableau dashboards** to visualize **pH and nitrogen levels**, interactive visualizations that improved data accessibility and decision-making.
- Integrated Nuetech.ai and AWS DynamoDB with React front end** to deliver seamless, AI-driven insights and real-time data experiences.
- Structured and fused diverse datasets for visualization** by bridging ETL workflows with user interface engineering, enabling impactful data storytelling and intuitive user experiences.

### Full Stack Web Development, Business Web Solutions

December 2023 – May 2024

- Built a responsive **Frontend** website for a tourism website using **React.js, HTML, CSS, and Bootstrap**, implementing dynamic destination search, interactive maps, and user review features for an engaging user experience.
- Developed the **Backend** with **NodeJS, and MySQL**, handling ensure user authentication, booking management, and API interaction for real time availability and payment processing.

### Research Assistant in AI Driven Web Applications, LDRP-ITR

July 2023 – December 2023

- Assisted in developing AI-powered web applications by implementing machine learning models using **Python and Scikit-learn**, improving user personalization and predictive capabilities.
- Conduct data processing, feature engineering, and visualization using **Pandas, NumPy, Bokeh and Matplotlib** to support research experiments and enhance model accuracy.

### Full Stack Web Development, Business Web Solutions

January 2023 – June 2023

- Developed a cross-platform **Food-Ordering Website** using **React and Firebase**, enabling users to browse menus, place orders and track delivery status real-time.
- Designed and managed **Firebase Realtime Database and Firebase Authentication** to handle dynamic order data and secure user sign-in, ensuring seamless app performance and data integrity.

## PROJECTS

### Analyzing Stock for ASU Print and Imaging Lab | *Python, Tableau, Microsoft Excel*

- Analyzed inventory stock by transforming unstructured data from PrintIQ into structured data using **Python and Excel**. Create **Tableau Dashboards** to visualize stock usage trends and support data driven decision making.

### Machine Learning Model on Netflix world data | *Python*

- Analyzed Netflix World Data using **Pandas and Scikit-learn** and created machine learning model. Employed correlation analysis and odds ratio assessment to reveal probability distributions for influential user behaviour.

### Myntra Clone Website | *HTML, CSS, ReactJS, Redux, NodeJS*

- Developed a responsive website using **HTML, CSS, ReactJS, and NodeJS**, replicating core features like product listings, add to cart, and price tags. Enable dynamic product display to simulate real-world shopping experiences.