

Alay Patel

📞 (689) 686-5935 📩 alaypatel5702@gmail.com 💬 LinkedIn 🌐 GitHub

EDUCATION

Master of Science, Information Technology Arizona State University, Tempe, AZ <i>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</i>	May 2026 CGPA: 4.00 / 4.00
Bachelor of Technology, Computer Engineering LDRP-ITR University, Gandhinagar, India <i>Coursework: Data Structure and Algorithms, Database Management System, Machine Learning, Web Development</i>	June 2024 CGPA: 3.46 / 4.00

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 <i>Python, Tableau, Microsoft Excel</i>	
• 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 <i>Python</i>	
• 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.	
Mynta Clone Website <i>HTML, CSS, ReactJS, Redux, NodeJS</i>	
• 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.	