

# Malav Patel

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patelmalav.com

## EDUCATION

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### Master of Science in Computer Science

May 2026 | Dartmouth, USA

*University of Massachusetts*

**GPA: 4.00**

Courses: Advanced Machine Learning, Theoretical Computer Science, Big Data Analytics

### Bachelor of Technology in Information Technology

May 2024 | Anand, India

*Charusat University*

**GPA: 3.63**

Courses: Data Structures and Algorithms, Data Analytics and Visualization, Statistical and Numerical Techniques, Engineering Mathematics – II

## SKILLS

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**Programming Languages:** Python, C++, C, SQL, Java

**Data Science & Machine Learning Tools:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras

**Data Analysis & Visualization:** Power BI, Matplotlib, Seaborn

**Data Processing & Storage:** Spark, Hadoop, MongoDB, MySQL

**Machine Learning:** Supervised and Unsupervised Learning, Model Evaluation, Cross-Validation, Feature Engineering

**Web Development:** HTML, CSS, JavaScript, AngularJS, Flutter (for mobile app development)

**Cloud & Big Data Tools:** Azure Functions, Azure Event Hub, Azure Blob Storage, Kusto Query Language (KQL), AWS, BigQuery, Jupyter Notebooks, PyTorch

**Version Control:** GitHub

## PROFESSIONAL EXPERIENCE

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### Data Analyst Intern

Jan 2024 – Apr 2024 | Vadodara, India

*Atliq Technologies*

**Tools Used:** SQL, Power BI

- Improved Business Impact: Conducted in-depth analyses of user behavior and store performance data, identifying actionable insights that boosted sales by 14.21% and supported fact-based decision-making across business teams
- Evaluated two years of sales data using SQL to identify KPIs like total profit and average basket size, generating financial insights and recommendations to enhance user experience and spending patterns
- Assessed employee performance data, identifying the top 3 employees who contributed 27% of total sales and recommended performance-based incentives to increase productivity
- Prepared and delivered weekly and final reports, documenting the analysis and distilling technical insights for non-technical stakeholders, presenting these insights clearly to the university

### Data Scientist Intern

May 2023 – Jun 2023 | Nadiad, India

*Muljibhai Patel Urological Hospital*

**Tools Used:** Python, NumPy, Pandas

- Conducted genome research under Chief Scientist Sachchida Nand Pandey, focusing on pharmacogenomics to optimize personalized medication dosing for kidney transplant patients
- Collaborated with medical experts to understand genomics and pharmacogenomics, contributing to data-driven treatment solutions
- Processed and analyzed 256 GB of unstructured genomic data to derive patient-specific insights, utilizing Manhattan plots to identify genetic variants impacting drug response
- Applied advanced analytical and machine learning models in Python (Keras, NumPy, Pandas) to predict optimal dosing for transplant patients, improving medication precision

## PROJECTS

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### Real-Time Traffic Data Analytics [↗](#)

Nov 2024

*Big Data Analytics Project*

**Tools Used:** HERE Traffic API, Azure Functions, Azure Blob Storage, Azure Event Hub, Fiber Event Stream, KQL (Kusto Query Language), Power BI, BeautifulSoup, Pandas

- Automated Data Collection: Built a seamless data pipeline with Azure services, collecting traffic data every 10 minutes from the HERE Traffic API and weather data via web scraping with BeautifulSoup, processing over 1,440 data points daily, reducing manual effort by 100%
- Enhanced Traffic Insights: Integrated live weather data with traffic metrics, analyzing over 15 variables (such as jam factor, free flow speed, weather conditions) using Pandas for efficient data manipulation, supporting data-driven decision-making
- Developed an interactive Power BI dashboard to visualize congestion patterns and analyze weather impacts on traffic flow, enhancing data-driven decision-making

### Bhagvad Geeta with Audio [↗](#)

Aug 2022

*Mobile Application*

**Tools Used:** Flutter, Firebase

- Developed and launched a mobile app with over 10,000 downloads and a 4.8-star rating from 133 reviews on the Play Store
- Integrated multi-language support (Sanskrit, Hindi, Gujarati, English) and an audio playback feature, enhancing accessibility for visually impaired users
- Enhanced app functionality based on user feedback, resulting in a 25% increase in downloads after expanding language options

## AWARDS

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### Best Data Extraction Accuracy Award

Oct 2024

*Intelligent Data Discovery Hackathon*

### Best Collaboration and Teamwork Award

Oct 2024

*Intelligent Data Discovery Hackathon*

### Grand Finale Selection

Oct 2022

*Azadi ka Amrit Mahotsav Hackathon*

## CERTIFICATES

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- HackerRank Badges: 5-star in Problem Solving, 4-star in C++, 4-star in C [↗](#)
- Google Data Analytics Professional Certificate [↗](#)
- Machine Learning (DeepLearning.AI) [↗](#)