

ANISH RAJ PANDEY

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Education

Texas State University

San Marcos, TX

Major: Bachelor of Science in Computer Science

Minor(s): Applied Mathematics + Data Analytics

Technical Skills

Languages: JavaScript, Python, C++, HTML/CSS, SQL, PHP

Developer Tools: Git, GitHub, Docker, Postman, Jira, AWS (S3), Jupyter Notebook

Technologies/Frameworks: React, Next.js, Node.js, Flask, MongoDB

Data/ML: scikit-learn, PyTorch, Keras, TensorFlow, NumPy, Pandas, Matplotlib,

Experience

Texas State University – Technology Resources

Nov 2025 - Present

Mobile and Web Systems QA Tester

San Marcos, TX

- Conducted functional and accessibility testing on TXST Mobile and 20+ university web apps, identified over 100 issues, and verified feature readiness before release.
- Reproduced, documented, and reported defects in TDX and GitHub, which reduced post-release issues by 15% through clear, actionable bug reports.

Summer Math Camp – Mathworks

June 2025 - July 2025

Math Tutor Fellow

San Marcos, TX

- Taught Mathematics to 25+ Middle School Students in a practical setting
- Collaborated with fellow instructors to integrate real-world applications, boosting student interest in advanced topics.

Vision Ventures Pvt Ltd,

August 2023 - March 2025

Full Stack Web Developer

Kathmandu, Nepal

- Built the frontend and backend of the company's web platform, and maintained the database by using React, Next.js, Node.js, and MongoDB
- Developed and maintained an internal automation tool used by 15+ employees, integrating 10 API endpoints to streamline workflows and improve system efficiency.

Projects

AI Wardrobe Manager | Python, Flask, Google Vision API, React

[Github](#) [Live](#)

- Built an AI-powered clothing classifier using Google Vision API to detect item type, color, and style from uploaded images.
- Designed a recommendation engine suggesting outfits and donation candidates using rule-based reasoning.

Housing Price Prediction Model | Python, Scikit-learn, Matplotlib, Pandas, NumPy

[Github](#)

- Built a housing price prediction model using scikit-learn, applying data preprocessing, feature engineering, and train/test pipeline development
- Trained and evaluated multiple regression algorithms: Linear Regression, Decision Tree, Random Forest, achieved strong predictive accuracy, and visualized results with Matplotlib.
- Cleaned and analyzed the dataset with Pandas and NumPy for better prediction.

CO2 Emission Prediction + Visualization | Python, Matplotlib, PyTorch, React, CSS [Github](#) [Live](#)

- Built a full-stack CO₂ prediction tool using React, Python, and PyTorch, integrating interactive visualizations with real NASA data.
- Developed an ML model to forecast CO₂ emissions, and displayed results through dynamic charts built with Matplotlib and Chart.js.
- Implemented country-level data exploration using 1,000+ NASA datasets, improving usability and insight discovery.

Prompt Injection Detector | Next.js, OpenAI API, Python

[Github](#) [Live](#)

- Implemented a classifier that detects potential prompt-injection attacks from user input.
- Engineered a dataset of safe vs. malicious prompts and trained a TF-IDF + logistic regression model.

Relevant Coursework

Data Structures | Algorithm Analysis | Object-Oriented Programming | Intro to Machine Learning
Database Management | Statistics | Discrete Mathematics | Probability

Leadership and Extracurricular

Artware Nepal

Founder & Team Leader

January 2023 - May 2024

Kathmandu, Nepal

- Founded and led a creative-tech startup team, directing idea development, product planning, and early prototype execution.
- Managed a small interdisciplinary team and coordinated client communication, ensuring alignment on goals and deliverables.

Coding for Social Good Nepal

Officer

January 2024 - Present

- Supported technology-focused community initiatives by organizing coding workshops and outreach events.
- Assisted in mentoring students and helping expand access to tech education and resources in Nepal.