

ARUSHI PURANIK

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EXCEPTIONAL ACHIEVEMENTS

- Developing a hand sign detector ML model to translate gestures into text, enhancing accessibility through real-time recognition.
- Engineered a fingerprint-based voting system to eliminate electoral fraud, achieving 100% voter uniqueness with cost-effective hardware.
- Built a machine learning model to predict California housing prices, boosting accuracy by 15% through feature engineering.

EDUCATION

Acropolis Institute of Technology and Research, Indore, India

Bachelor of Technology in Computer Science and Engineering | 11/2021 - Present
CGPA: 7.03/10

Vidyasagar School, Indore, India

Senior Secondary School Certificate | 04/2020 - 04/ 2021
Percentage: 85%

TECHNICAL SKILLS

- Languages:** Python, C++, SQL
- Frameworks/Tools:** Tensorflow, Scikit-learn, Matplotlib, Jupyter
- Concepts:** Machine Learning, Data Structures and Algorithms, Data Analytics, DBMS

PROJECTS

Hand Sign Detection (Machine Learning) | 02/2025 - Present

- Designing a pure ML model to interpret hand gestures and output associated text, targeting real-time accessibility applications.
- Utilizing TensorFlow and Scikit-learn to train the model on gesture datasets, optimizing for accuracy and low latency.

Fingerprint-Based Voting System | 05/2024

- Built a biometric voting system to ensure single-vote casting, reducing fraud with real-time result tracking.
- Designed an admin interface for candidate registration and voter verification, targeting 80%+ voter turnout by 2030.

California Housing Price Prediction (Machine Learning) | 12/2024 - 01/2025

- Developed an ML model using Python, TensorFlow, and Scikit-learn to predict housing prices, improving accuracy by 15%.
- Applied data preprocessing and feature engineering to extract insights from location, population, and income data.

Backpack Price Prediction (Machine Learning) | 06/2024

- Developed a Random Forest model in Python to predict backpack prices, analyzing features like brand, size, and market demand.
- Achieved high prediction accuracy by tuning hyperparameters and preprocessing noisy e-commerce datasets.

EXPERIENCE

Internship Studio, Indore, India

Machine Learning Intern | 12/2024 - 01/2025

- Designed and optimized an ML model to predict California housing prices, analyzing datasets with multiple features.
- Improved prediction accuracy by 15% through data preprocessing, feature selection, and model evaluation techniques.

CERTIFICATIONS

- Exploratory Data Analysis for Machine Learning – IBM
- Supervised Learning: Regression - IBM
- Python for Data Science – NPTEL
- Google Analytics for Beginners – Google
- Advanced Google Analytics – Google

EXTRACURRICULAR ACTIVITIES

Hack-a-bot, Participant | 03/2023 - 04/2023

- Collaborated in a UiPath hackathon to develop an RPA bot, streamlining business processes with innovative automation..

1-Dollar Venture, Acropolis Institute | 06/2022 - 07/2022

- Co-created a business proposal that won 2nd prize in a college competition focused on innovative ideas.