KUNJ PANDYA

Mumbai, India | kpandya1903@gmail.com | +91 9920533696

EDUCATION

Bachelor of Technology (Artificial Intelligence and Machine Learning)   **May 2025**
Dwarkadas Jivanlal Sanghvi College of Engineering, Mumbai University, India   CGPA: 7/10
Courses: Machine Learning, Deep Learning, High-Performance Computing, Python, Big Data,
Large Language Models, Natural Language Processing, Advanced Data Structures and Algorithms, etc.

Higher Secondary Certificate (HSC) in Science   **May 2021**
Prakash College of Commerce and Science, Mumbai, India   88.82%

ACADEMIC PROJECTS AND PAPERS

- **Smart Refrigeration with Recipe Recommendation**   **July 2024**
  Developed an android application to monitor refrigerated food ingredients and provide instant feedback on their quality and quantity, promoting a sustainable lifestyle and recommend food recipes.
  - Implemented a machine learning model using computer vision to recognize ingredients and recommend recipes with step-by-step guidance.
  - Utilized technologies such as machine learning models, SQL databases, cross-matching algorithms, Android Studio, Raspberry Pi, and multisensory inputs.
  - Paper: "Revolutionizing Culinary Experiences: AI-Driven Ingredient Recognition and Personalized Recipe Recommendation System" Library Progress International, Vol. 44 No. 3, 31-Jul-2024 (https://bpasjournals.com/library-science/index.php/journal/article/view/2693)

- **Optimized Placement Preparation Platform**
  Developed a platform that enables students to access insights from company profiles, alumni, hired peers, and assessment tools, while providing analytical metrics, configuration options, and performance tracking.
  - Implemented resume parsing, utilized CV and cameras for confidence detection, and designed both the frontend and backend.
  - Utilized technologies such as machine learning models, NodeJS, HTML, and SQLite.
  - Paper: In process of publishing

- **Credit Risk Assessment Using XGBoost**
  Designed a credit risk assessment model with XGBoost to predict loan defaults, utilizing borrower data including credit history, income, and loan amount.
  - Conducted data preprocessing, feature engineering, and hyperparameter tuning to optimize model performance, achieving specific metric [e.g., 95% accuracy, 0.85 AUC-ROC].
  - Deployed the model in a production environment using [Flask, Django] for real-time credit evaluation, facilitating data-driven decision-making in loan approvals.

- **E-commerce Website for Departmental Store**
  Developed a dynamic e-commerce website for a departmental store, integrating item listings, customizable orders, and a secure payment gateway to enhance the customer experience.

- **Snake Game Development Using Python and Pygame**
  Created a classic Snake game with real-time input, dynamic gameplay, custom graphics, and difficulty progression, utilizing object-oriented programming for scalable and optimized performance across various devices.

TECHNICAL SKILLS

- Programming: C, C++, JavaScript, HTML, CSS
- Database: SQL- PostgreSQL, MySQL
- Backend: Python, NodeJS
- Frontend: Flutter, React
- Operating Systems: Windows, Linux
- Software: AutoCAD, Visual Studio, PyCharm, Eclipse

EXTRACURRICULAR ACTIVITIES

- **Served as Head of the Organizing Committee** for GIM organization (2019-23), leading cultural festivals, contributing critical ideas, solving problems, and managing event organization.
- **Volunteered at Prayaas Organization** (an education society) in 2021, teaching Physics and Mathematics to underprivileged students.
- **Aided in animal welfare** (2022-24) with Nature's Ally Foundation, participating in vaccination drives and food distribution campaigns.
- **Completed an NVIDIA course** in Fundamentals of Accelerated Computing with CUDA, C/C++ in 2024.