NIKHIL PATIL

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Education

California State University • **Master of Science in Computer Science** **Jan 2022 – Present**
- **Courses:** Machine Learning, Web Engineering GPA: 3.66/4.0

University of Mumbai • **Bachelor of Computer Engineering** **Jun 2016 – Oct 2020**
- **Courses:** Data Structures, Algorithms, Data mining CGPA: 7.3/10
- Co-founded a robotics club with four teammates, spearheading the training of junior students in robotics and organizing informative seminars on robotics and programming for high school students.
- Directed teams ranging from 5 to 20 members to successfully plan and execute programming events, demonstrating leadership and organizational skills in fostering a collaborative learning environment.

Skills

Languages:	Python, C#, Java, C, JavaScript, SQL, YAML
Technologies:	Android development, Docker, TensorFlow, scikit-learn, Web Development, Svelte Kit, Angular, React, MongoDB, Raspberry Pi, REST APIs, Bootstrap, Amazon Web Services, Git, .NET

Work Experience

Gadre Infotech Ratnagiri, India | Junior Developer | 02/2020 – 02/2021
- Accelerated development through agile methodologies, ensuring rapid bug fixes and seamless integration of new features within weekly release cycles.
- Proactively performed daily bug fixing, basic quality assurance, and prompt creation of patches, resulting in a 20% reduction in both tester and client-reported bugs.
- Innovatively introduced and optimized COVID-19-related functionalities in a health-focused product, contributing to a remarkable 30% increase in sales within one week.
- Revolutionized client onboarding by gathering requirements and implementing unique forms, leading to a substantial 60% increase in customer satisfaction.

Projects

WIFI vision: Using WIFI for human position estimation
- Designed and developed WiFiVision, a mobile system for human position estimation using WiFi signals, showcasing expertise in deep learning, Android APIs and ESP32.
- Implemented a robust early experimentation prototype, featuring a web app for real-time WiFi signal monitoring and seamless Firebase integration for efficient data management.
- Modified the WiFiVision Android app for the final prototype, incorporating advanced features like human pose data collection and real-time position monitoring using an on-device SQLite database for enhanced efficiency and portability.

Delivery drone
- Engineered an Android application utilizing the Google Maps SDK for accurate drone destination selection, enhancing user interface and experience.
- Implemented a secure communication infrastructure by seamlessly integrating Secure Shell (SSH) and Secure File Transfer Protocol (SFTP) between the Android app and the onboard Raspberry Pi, ensuring robust data security during operations.
- Architected an innovative real-time flight tracking mechanism, providing users with instant insights into the drone's location and status, thereby elevating the overall flight experience through enhanced transparency and control.

Credit card acceptance prediction
- Developed an intricate XGBoost machine learning model attaining a remarkable 87% accuracy in the critical task of predicting credit card acceptance rates.
- Leveraged cutting-edge feature engineering methodologies to expertly extract and analyze invaluable insights from multifaceted transactional datasets, thus enhancing the predictive power and robustness of the model.

Interests

Video games • Artificial Intelligence • Hiking • User Interfaces • Learning • Motorcycles • Music