

# NIKHIL PATIL

patil.nikhil12@outlook.com | (424) 390-9367 | Los Angeles, CA  
[linkedin.com/in/nikhilpatil12](https://www.linkedin.com/in/nikhilpatil12) | [github.com/nikhilpatil12](https://github.com/nikhilpatil12) | <http://nikpatil.com/>

## Education

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**California State University • Master of Science in Computer Science** Jan 2022 – Present  
• **Courses:** Machine Learning, Web Engineering GPA: 3.6

**Mumbai University • Bachelor of Computer Engineering** Jun 2016 – Oct 2020  
• **Courses:** Data Structures, Algorithms, Data mining CGPA: 7.3/10  
• Founded robotics club with 4 other teammates and trained junior students in robotics, arranged robotics and programming introductory seminars for high school students.  
• Led teams of sizes 5-20 to organize programming events

## Skills

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Languages: Python, C#, Java, C, JavaScript  
Technologies: Android development, jQuery, REST APIs, SQL, Bootstrap, AWS, Git, .NET

## Work Experience

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Junior Developer Ratnagiri, MH, IN  
**Gadre Infotech Pvt. Ltd.** Feb 2020 - Feb 2021  
Web Solutions Company

- Accelerated development by working at a rapid pace to perform critical bug fixes while also introducing new features and sub-features meeting tight, weekly release cycles.
- Went beyond daily bug fixing tasks to perform basic quality assurance and create patches for the newly identified bugs right away, reducing tester and client reported bugs by 20%
- Added and optimized COVID-19 related functionalities in a health-related product within a week resulting 30% increase in sales.
- Onboarded clients by collecting requirements and implementing unique forms resulting in increased customer satisfaction by as much as 60%.

## Projects

### Delivery drone.

- Developed an Android application enabling precise drone destination selection using the Google Maps Software Development Kit (SDK).
- Devised a robust communication infrastructure by seamlessly integrating Secure Shell (SSH) and Secure File Transfer Protocol (SFTP), bolstering data security between the app and the Raspberry Pi onboard the drone.
- Architected an innovative real-time flight tracking mechanism that furnishes users with instant insights into the drone's location and status, significantly augmenting the overall flight experience.

### 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.

### Smart irrigation system.

- Demonstrated exemplary prowess by clinching the prestigious 2nd position in a highly competitive hackathon, showcasing a refined linear regression model boasting an impressive 85% accuracy rate. The model proficiently predicts precise water requirements for plants, based on dynamic environmental variables.
- Seamlessly integrated additional meteorological parameters into the model's framework, resulting in a notable 10% improvement in predictive accuracy, highlighting dedication to precision and advancement.

## Interests

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