

# Siddhant Lad

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## Education

**University of California San Diego (UCSD)**, *Master of Science in Computer Science* San Diego, USA | Present  
Academic Coursework: Principles of Software Engineering, Design & Analysis of Algorithm, Large Model Reasoning  
GPA: 4/4

**NMIMS MPSTME**, *Bachelor of Technology in Computer Engineering* Mumbai, India | 2020-2024  
Academic Coursework: Machine Learning Optimization Algorithms, Neural Networks and Deep Learning  
GPA: 3.83/4

## Projects

**PaperWave** *React Native | AWS | Python | BART-LARGE-CNN | AdMob*  
Implemented an app in React Native which used the BART-LARGE-CNN model to convert academic papers to mobile-friendly blog formats for enhanced readability and user-friendliness.

**MediaMinds** *Google Colab | Generative AI | Python | Stable Diffusion | Text-to-Video*  
Built a text-to-video generator using Stable Diffusion for image generation and Retrieval-Based Voice Conversion coupled with Google's text-to-speech for narration. The system demonstrated exceptional performance in creating story-based informational content. It presents diverse use cases, including an efficient tool for automated content creation and a powerful solution for producing engaging informational videos.

**Safe Distancing** *LSTM | DBSCAN | Android Studio | TensorFlow Lite | AWS*  
Developed an app for safety against COVID-19 using ML algorithms (DBSCAN, LSTM) to analyze real-time crowd density data using historical data and user collected data to help maintain social distancing.

**Sensor'D** *Android | Canvas | Arduino | Bluetooth Module | Firebase | C++ | Embedded Systems*  
Created a retro arcade game as a Native Android application, seamlessly integrated with an IoT-based controller designed and built by me. The game features high scores, dynamic effects, and leaderboards to enhance user engagement and interest.

## Professional Experience

**Ernst & Young**, *Summer Intern for Technology Consulting* Mumbai, India | March '22 - July '22  
*Bash | Python | Kali Linux | Java | SQL | JavaScript*  
Conducted Red Teaming, vulnerability assessments, and penetration testing for 12+ systems, identifying and mitigating critical security risks. Automated routine security tasks with custom scripts, reducing task completion times by 60% and improving overall operational efficiency.

**RB Electronics Pvt Ltd.**, *Software Consultant* Pune, India | Sept '22 - Feb '23  
*AWS | Java | C# | React Native | Node.js | Android Studio*  
Led the development of mobile apps and supporting infrastructure, serving 500+ active users. Deployed ASP.NET APIs on AWS EC2, achieving an 80% improvement in performance, significantly enhancing response times and scalability.

**NTT Ltd.**, *Intern for Product Engineering and Innovation* Pune, India | June '23 - Oct '23  
*Python | ManageEngine | FastAPI | Spring Boot*  
Automated reporting solution using Python, integrating it with the ManageEngine ITSM tool to streamline data processing and reduce manual effort by 70%. Enabled scheduled reports and real-time notifications, improving accuracy and reducing reporting time by 50%, enhancing IT service management efficiency.

## Skills

**Languages & Scripting:** Python, Java, C++, Kotlin, C, C#, JavaScript, Bash  
**Operating Systems:** Windows, Linux  
**Cloud Platforms:** AWS, GCP  
**Databases:** Firebase, Postgres, MySQL, SQLAlchemy  
**Integrations:** ML Model Training, TensorFlow, PyTorch, NLTK, Scikit-learn  
**Development:** Mobile, Web  
**Automation:** Bash, Python, Power Automate

## Organizations

**Google Developer Student Club MPSTME**, *Head of Android Department*  
**NMIMS Technical Fest 12.0**, *Technical Lead*