

# Kush Pandya

[Email](#), [GitHub](#), [LinkedIn](#), [Website](#)

(970) 988-1332

## Summary

- Strong understanding of modern concepts like Machine Learning, Artificial Intelligence, Computer Vision, Cloud System, etc.
- Experience in creating machine learning algorithms to train numeric as well as image data using CNN and R-CNN.
- Efficient with Android application development lifecycle from application creation to deployment in Google Play Store.
- Proficient knowledge of SDLC with implementing design, development, and debugging phases of the application.
- Experience working in Java as well as Kotlin with latest design architectures like MVVM and MVP design architectures.
- Knowledge of several third party libraries such as Retrofit for network calls, and Glide for managing image resources.

## Experience

### Machine Learning Engineer

Sep 2023 - Oct 2023

*Kibo Investment Advisors (Python, Snowflake)*

*Fort Collins, Colorado, USA*

- Created two datasets by integrating financial and environmental data for a group of companies using Snowflake.
- Implemented a few financial calculations to add data to the dataset files to train further in Neural Network using python.

### Graduate Research Assistant

Jan 2021 - May 2023

*Colorado State University (C#, Python, Unity 3D, Google Colab)*

*Fort Collins, Colorado, USA*

- Implemented Qualitative Spatial Relations (QSRs) between 3D objects to find geometric relations between them.
- Incorporated Allen's Interval Algebra and Region Connection Calculus 8 to construct a novel data set to train models.

### Software Engineer, Android

Jul 2019 - Dec 2019

*Versatile Technolabs PVT. LTD. (Java, Kotlin, XML, Android Studio)*

*Ahmedabad, Gujarat, India*

- Skilled in using Android components like Activities, Services, Broadcast Receivers, Google Maps, JDBC, JSON, XML, etc.
- Implemented and deployed some other applications like Christmas Countdown, E-commerce application, EMI Calculator.

### Software Engineer Intern, Android

Jan 2019 - Jun 2019

*Aimcrafters Software PVT. LTD. (Java, Kotlin, XML, Android Studio)*

*Ahmedabad, Gujarat, India*

- Learned and developed a few advanced user interfaces, strong application structures, and REST API integration.
- Reduced memory leaks by using fewer static references resulting in a 10% increase in the application optimization.

## Projects

### Fashion E-commerce Web Application (React JS, Firebase, Visual Studio Code) [Source Code](#)

Aug 2021 - Oct 2021

- Developed and deployed a highly available E-commerce web application for online shopping men's and women's wear etc.
- Implemented user-authenticated sign-in and sign-up processes, add-to-cart functionality, and Stripe API payment setup.

### Movie Recommendation System (Python, PySpark, Google Colab) [Source Code](#)

Sep 2020 - Dec 2020

- By using Collaborative Filtering based on reviews and movie preferences, a movie recommendation system was updated.
- Achieved RMSE of 0.91 by using Spark with PySpark API and memory-based method on the MovieLens data set.

### Parental Control/Monitor Application (Kotlin, XML, Android Studio)

Oct 2019 - Dec 2019

- Developed a parental control/monitor mobile application to monitor child's activities on a particular device.
- Applications can track and limit how much time they spend using smartphones or age-inappropriate sites and apps.

### Augmented Furniture (Java, XML, ARCore, Firebase, Android Studio) [Source Code](#)

Feb 2019 - Apr 2019

- Developed an interior design application using Augmented Reality to predict how furniture will look before purchasing it.
- Implemented 3D replicas of the furniture in the user's house or workplace using the augmented reality library ARCore.

### Voting Application (Java, XML, MySQL, Android Studio)

Jan 2019 - Mar 2019

- Designed and developed a highly consistent online voting application with fingerprint verification to authenticate the user.
- Integrated fingerprint hardware device to make the application more resilient across all android based smart devices.

## Education

**Master of Science in Computer Science**, Colorado State University, May' 23

**Bachelor of Engineering in Computer Engineering**, Alpha College of Engineering and Technology, May' 19

## Skills

Python, Google Colab, Firebase, C#, Unity 3D, Kotlin, Java, XML, Android Studio, MySQL, React JS, HTML, CSS, JavaScript, Git