# Tejas Sanjay Kakad

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Tejas' Portfolio Website

## Professional Profile:

I am currently a Graduate Student pursuing a **Master of Science in Computer Science** at Texas A&M University. I have a **Bachelor of Science in Computer Science**, complemented by minors in **Mathematics** and **Cybersecurity**. I am currently seeking a full-time **Software Engineering** or **Data Science** related opportunity to contribute my knowledge and skills to a team, foster continuous learning and personal growth.

## Education and Certifications:

***Texas A&M University – College Station***                                                          ***January 2024 – Present***
- **Major**: *Master of Science, Computer Science*

***OpenEDG Python Institute:***                                                          ***April 2023 | June 2023***
- **PCEP** – *Certified Entry-Level Python Programmer* | **PCAP** – *Certified Associate Python Programmer*

***Texas A&M University – College Station***                                                          ***August 2018 – December 2022***
- **Major**: *Bachelor of Science, Computer Science* | **Minor**: *Cybersecurity, Mathematics*

## Professional Experience:

**Urban Resilience.AI Lab – College Station**                    ***August 2022 – December 2022 | January 2024 - Present***
- **Data Science Researcher:** Analyzed human activity data, investigating **unique recovery patterns** at a user-level. Used **fine spatial granularity** to capture differential recovery experiences. Determined **homogeneity and heterogeneity** of datasets to understand equitable recovery practices, using **Python** based **Data Science** libraries (**NumPy**, **Matplotlib**, **Seaborn**, **Scikit-Learn**).  Journal paper:
  - *N. Coleman, T. Kakad, C. Liu, A. Mostafavi, "Homogeneity and Entropy Analysis of Use-Level Recovery to Lifestyles,"*

**Blackstone Technologies LLC – Remote**                                                          ***February 2023 – August 2023***
- **Python Developer:** Coordinate with teams to gather app requirements, write scalable **Python** code, **debug** applications, and integrate user-facing elements using **server-side logic**. Prioritize **client requests**, integrate **data storage** solutions, collaborate with **front-end** developers, and develop tools for **monitoring online traffic**.

## Major Projects:

- **Ruby on Rails Web-Application**: A web application built on **Ruby on Rails** framework, including a *sign-in* page for employees and customers, events page, service logger page for employees to register their work hours and a page for customers to keep track of the books they borrowed, read and ones that are to be returned to the library. Used **React.JS**, **Vanilla JavaScript**, and **basic HTML and CSS** for the frontend, and **Ruby on Rails** for the backend.
- **Speed Limit Sign Detector**: A software for autonomous driving vehicles to be able to detect speed limit sign boards. Captured speed limit sign board images using camera. Processed images with machine learning model (**SVM**, **CNN**, and **KNN**). Created test dataset with internet-collected speed limit sign board images. Implemented model with **ROS2 Foxy Fitzroy**.
- **EzFind (tourist guide web application)**: Developed a website for holiday destination search. Utilized **React** for frontend and **JavaScript**, **Node.JS**, and **Express.JS** for backend. Provided information on tourist attractions, nearby restaurants, weather report, and NEWS for entered destination.
- **Bayesian Personalized Ranking model:** Designed a program on python Jupyter Notebook using the **NumPy** and **Pandas** library to get a personalized ranking of movies by learning the recall and precision values for the implicit feedback (for about 20 *epochs*) and then finding the *average AUC* for the entire model.

## Skills:

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|---|---|---|
| *Java* | *CSS* | *Pandas* |
| *Ruby* | *CI/CD* | *MongoDB* |
| *C/C++* | *HTML* | *Unix/Linux* |
| *React.JS* | *Django* | *Git/GitHub* |
| *Python/R* | *Node.JS* | *TensorFlow* |
| *JavaScript* | *Ruby on Rails* | *Kubernetes/Docker* |