Raghav Kanda

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Education

University of Toronto | HBSc Toronto, Canada

Major in Statistics and Mathematics, Minor in Computer Science *Sept. 2021 – Apr. 2025*

- **Relevant Courses**: Software Tools & Systems Programming, Software Design, Introduction to Machine Learning & Information Security, Advanced Calculus & Linear Algebra, Methods of Data Analysis, Theory of Computation, Probability & Statistics, Data Structures & Analysis, Regression Analysis

Skills

Languages: Python, Java, C, C++, Java, Unix (Bash), SQL, R, Django, Node.js, Go
Tools: Git, GitHub, VS Code, PyCharm, IntelliJ, CLion, nano, Docker, Unity
Soft Skills: Willingness to keep learning, Ability to work with a team, Strong interpersonal skills, Professional, Outgoing, Problem Solver, Strong Analytical Skills, Creative Thinking,.

Project: Machine Learning Model Development

Designed and trained **machine learning** models in **Python** using libraries such as **Scikit-learn** and **TensorFlow**.

Developed a classification model to predict outcomes based on real-world datasets, achieving high accuracy through feature engineering and **hyperparameter tuning**.

Visualized model performance with confusion matrices, precision-recall curves, and other evaluation metrics.

Project: Information Security Analysis

Personally identified and analyzed **vulnerabilities** in various software systems across platforms like **Windows, Kali Linux, and Ubuntu**.

Utilized tools and frameworks such as **Metasploit**, **Wireshark**, and **OpenSSL** to perform in-depth security assessments.

Conducted penetration testing to uncover **security loopholes** and recommended actionable fixes to enhance **system defenses**.

Evaluated **encryption** protocols and system configurations to ensure compliance with **security** best practices.

UofTHacks X Hackathon Winner

Led a 4-person team to develop a meal-sharing **LLM** application in a 36-hour **hackathon winning** the sponsor challenge.

Designed and implemented an intuitive user experience, integrating real-time meal scheduling and seamless group coordination.

Project: Data Analysis

Leveraged powerful libraries including **Pandas, Matplotlib, and NumPy** to efficiently handle, manipulate, and visualize data.

Imported and analyzed datasets to compute key **statistics** and generated interactive and visually appealing charts from the data.

Implemented **data cleaning** techniques to handle missing values, detect outliers, and ensure the accuracy of analytical insights.

Awards

University of Toronto Scholar (CAD 5,000) - For outstanding academic performance

University of Toronto Principal's Entry (CAD 12,000) - Merit based academic award