Prabhakar Kafle

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EDUCATION

Massachusetts Institute of Technology   **Cambridge, MA**
*Candidate for Bachelor's in Science in Computer Science**. GPA*: 5/5   June 2023
> **Relevant Coursework:** Machine Learning, Algorithms Analysis and Design, Elements of Software Construction, Computation Structures, Computational Photography, Pokerbots, Probability

WORK EXPERIENCE

Computer Science and Artificial Intelligence Lab, MIT   **Cambridge, MA**
Undergraduate Researcher   June 2021- Present
- Developing frameworks to understand document layout and extract information from business forms and invoices
- Prototyping an end-to-end user interface to interact with the document processing algorithms

Computer Science and Artificial Intelligence Lab, MIT   **Cambridge, MA**
Undergraduate Researcher   September 2019- December 2020
- Implemented APIs for private versions of Machine Learning and optimization (Differential Privacy) and Federated Learning
- Built a secure backend architecture and front-end for a web interface to interactively try out basic Differential Privacy and Federated Learning

Department of Urban Studies and Planning, MIT   **Cambridge, MA**
Undergraduate Researcher   February- August 2020
- Worked on data pre-processing and engineering to analyze Call Data Records of Sierra Leone to provide insights on mobility pattern to help in forming policies around COVID-19
- Programmed, and deployed in AWS, the backend and APIs for Visualize NYC 2021 web interface to share and visualize vision for New York City

Oya Inc.   **Kathmandu, Nepal**
Graphics and Web designer   March 2018 – April 2019
- Designed WordPress themes for websites- Oya Opportunities and Oya School
- Led a team of 4 people in research and website development of Oya School- a platform for information on colleges abroad

MAJOR INVOLVEMENTS

MIT Unmanned Aerial Vehicle (UAV) Team
Team Member, Software focused   January 2021 – Present
- Designing autonomous vehicle for air delivery to participate in Student Unmanned Arial System (SUAS) competition

ExplainMIT (explain.web.app)
Team Member- User Interface/Experience focused   January – August 2020
- Built a collaborative online space for students and faculty to work together and teach in small groups
- Ran trail in 3 MIT classes and used in one for the Fall 2020 semester.

TECHNICAL SKILLS

Python, Web Development (*Javascript, Vue.js, jQuery, Gatsby, Flask, WordPress, MongoDB*), Java, Machine Learning, Image Processing