## Wrik Bhadra

Email: wrik18027@iiitd.ac.in Homepage: https://mavewrik.github.io/

Research interests Computer Vision, Machine Learning, Multi-modal Learning

Employment Rakuten India Bangalore, India

Software Engineer II - Machine Learning

Dec 2021 - present

Software Engineer I - Machine Learning

Aug 2021 - Nov 2021

Software Engineer I

Aug 2020 - Jul 2021

Education IIIT Delhi New Delhi, India

M.Tech. in Computer Science and Engineering 2018 – 2020

Techno India University, West Bengal Kolkata, India

B.Tech. in Computer Science and Engineering 2014 – 2018

Papers / Patents Method, Apparatus, and Computer Readable Medium (Patent)

Nithish Divakar, Wrik Bhadra

US Patent and Trademark Office [filing expected Dec 2021]

Generalized Prediction of Hemodynamic Shock in Intensive Care Units

Aditya Nagori, Pradeep Singh, Sameena Firdos, Vanshika Vats, Arushi Gupta, Harsh Bandhey, Anushtha Kalia, Arjun Sharma, Prakriti Ailavadi, Raghav Awasthi, Wrik Bhadra, Ayushmaan Kaul, Rakesh Lodha, Tavpritesh Sethi Intensive Care Medicine (Springer) [submitted Oct 2021 - pending review]

medRxiv 2021.01.07.21249121 link

Internships Rakuten India Jun 2020 – Jul 2020

Software Engineering intern

Worked on full-stack development (Go backend, Vue.js frontend) of an Application Performance Monitoring system.

Rakuten Ready Jan 2020 – May 2020

Research intern

Studied the feasibility of identifying location types by learning location embeddings with triplet-loss networks as a multi-label classification problem.

Selected projects Distracted Driver Detection Feb 2019 – Apr 2019

Supervisor: Prof. Mayank Vatsa, IIIT Delhi Team size: 3 Given dashboard images, our system aims to classify the driver on the basis of 10 predefined actions such as texting, speaking on the phone, reaching backwards etc. to detect distraction and alert them.

Project poster / GitHub repo / Kaggle link

**Enhanced Pattern Unlocking in Smartphones** 

Sep 2018 - Nov 2018

Supervisor: Prof. Mayank Vatsa, IIIT Delhi

Team size: 3

To overcome smudge attacks and over-the-shoulder snooping in swipe-based unlocking mechanism in smartphones, our system considers the actual haptic gesture and speed for authentication.

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Project report / GitHub repo

Skills **Programming languages:** Python, MATLAB, Java, C/C++

Web/Application development: Python-Flask, Vue JS, MongoDB, SQL

Machine Learning: PyTorch, TensorFlow, scikit-learn Tools: Bash, LaTex, Git, Jupyter Notebook/Lab, Docker

Relevant coursework

Computer Vision, Digital Image Processing, Machine Learning, Calculus, Probability & Statistics, Linear Algebra, Computer Architecture,

Information Retrieval, Machine Learning in Biomedical Applications

Mentoring & Interviewing experience

Rakuten India

Jun 2021 & Mar 2021

 $Conducted\ technical\ interviews\ for\ a\ prospective\ full-time\ and\ three\ intern$ 

candidates for a separate business unit.

Rakuten India

Nov 2020 - Jan 2021

Mentored a CS undergrad intern on a project involving application of image processing techniques.

Honors, Awards & Recognition

Rakuten India annual awards

2021

Part of the winning team under the Rakuten Eureka (Innovation) category

Rakathon - Rakuten India's annual hackathon

2021

Selected in the top 110 teams out of 7500+ submissions under the AI - Healthcare category

Ministry of HRD, Govt. of India

2014

Letter of congratulation for performance in AISSCE 2014 (top 0.1% candidates

*across the country)* 

Volunteering Coursera

Jul 2016 – Present

Course beta-tester

Hobbies Reading experiential books

Playing chess