Raghav Mittal

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PROFESSIONAL SUMMARY

Extensive experience as a data scientist working on operations improvement, energy optimization & decarbonization strategies. Armed with the inferential thinking toolkit (AB testing, Causal Inference, and ML) I look forward to working with engineering teams driven toward responsible, effective, & resilient intervention.

TECHNICAL SKILLS

- **Programming Languages:** MySQL, Python, R, JavaScript, HTML, CSS, MATLAB, Octave, Bash
- **ML Libraries:** NumPy, Pandas, SciPy, TensorFlow, Scikit-Learn, Keras, OpenCV

EXPERIENCE & PROJECTS

University of California, Berkeley *California, US*

Graduate Student Instructor, *Dept. of Data Science, Statistics, ESPM* *Jan '22 - Dec '22*

- Led discussion sections - reviewed the subject matter, facilitated an enhanced understanding of course content, provided individual help & assisted with grading for **175 students over 4 courses**
- Courses including *Human Contexts and Ethics of Data* and *Introduction to Statistics.*

Academic Project, *Mentor: Prof. Hany Farid*

Classification of war-destructed buildings in Syria using Satellite Imagery *Oct '22 - Dec '22*

- Investigated the performance of SVM on HoGs vs Neural Networks for improving automated detection of severely damaged buildings in the civil war-affected regions using high-resolution satellite images.

Academic Project, *Mentor: Prof. Zachary Parados*

Indoor Localization based on BLE Signal Strength using Machine Learning *Aug'21-Dec'21*

- Designed machine learning models using ensembling methods to accurately predict the indoor locations with the provided Received Signal Strength Indicator (RSSI) values from an array of iBeacons.

M.N. Dastur & Co., *Leading Engineering Consulting Firm for Heavy Industries* *Kolkata, India*

Data Scientist, Energy & Process Metallurgy Division *Oct '19 - Jun '21*

- Analytics lead for the team that identified 17 operations improvement initiatives with a **potential of saving *$65 Mn* annually** for a Mexico-based Integrated Steel Plant.
- Determined data-driven insights to implement five revised SOPs, **saving them *$21 Mn* annually**.

Analyst, Energy & Process Metallurgy Division *Jul '18 - Sep '19*

- **Developed predictive models** for assisting Steel Melt Shop operators exercise better process control.
- Conceptualized the Acid Gas Removal system for **world's first Hyper-Scale CO_2 EOR enabling Petrochemicals Complex** for a UAE-based Oil & Gas Company

EDUCATION

University of California, Berkeley *August '21 - December '22*

M.S., Development Engineering, Artificial Intelligence Focus

- *Honors:* Recipient of Simone Sciobereti Scholarship

Indian Institute of Technology, Kanpur *July '14 - June '18*

B.S., Materials Science & Engineering

- *Honors:* Recipient of Summer Undergraduate Research Grant for Excellence

MISCELLANEOUS

- *Publications:* Published & presented 4 papers at ***AISTech*** and ***METEC*** *Conference Proceedings*
- *Sports:* State-level **Basketball** Player (U-19), **endurance runner, cyclist & avid trekker**.