Raghav Mittal

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PROFESSIONAL SUMMARY

Extensive experience as a data scientist working on operations improvement and decarbonization strategies for the heavy industries (Iron & Steel and Oil & Gas). Armed with the inferential thinking toolkit, I look forward to working with ML teams driven towards responsible, effective and 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 <div align="right">*California, US*</div>
Graduate Student Instructor, *Dept. of Data Science, Statistics, ESPM* <div align="right">*Jan '22 - Dec '22*</div>
- 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 <div align="right">*Oct '22 - Dec '22*</div>
- 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.

M.N. Dastur & Co., *Leading Engineering Consulting Firm for Heavy Industries* <div align="right">*Kolkata, India*</div>
Data Scientist, Energy & Process Metallurgy Division <div align="right">*Oct '19 - Jun '21*</div>
- 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 with plant engineers and SMEs to implement five revised SOPs, **saving the plant $21 Mn annually**.

Analyst, Energy & Process Metallurgy Division <div align="right">*Jul '18 - Sep '19*</div>
- **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 <div align="right">*August '21 - December '22*</div>
M.S., Development Engineering, Artificial Intelligence Focus
- *Honors:* Recipient of Simone Sciobereti Scholarship
- *Leadership:* Elected Representative, Resident Council, International House

Indian Institute of Technology, Kanpur <div align="right">*July '14 - June '18*</div>
B.S., Materials Science & Engineering
- *Honors:* Recipient of Summer Undergraduate Research Grant for Excellence
- *Leadership:* Coordinator, Materials Science & Engineering Society

MISCELLANEOUS

- *Publications:* Published & presented 4 papers at ***AISTech*** and ***METEC*** Conference Proceedings
- *Electronics:* Designed a Digital Stethoscope for enabling Remote Auscultation-***PCB design KiCAD.***
- *Sports:* State-level **Basketball** Player (U-19), **endurance runner, cyclist & avid trekker**.