Mekhala Jai Kumar

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SKILLS

- Programming Languages: R, Python, Java, STATA
- Visualization Applications: Tableau, Google Data Studio
- Languages: English (native/bilingual proficiency), Hindi (Professional working proficiency) and Marathi (Professional working proficiency)

EXPERIENCE

Tutor, University of Massachusetts Amherst   **October 2022-Present**
- Guides students on statistical techniques such as econometrics and coursework regarding the same.

Classroom Assistant, University of Massachusetts Amherst   **September 2022-Present**
- Assists with the technological equipment in the classroom, attends to questions on Zoom due to the multimodal nature of class.
- Takes developmental notes of the class, noting down main topics covered and discussion of concept-based questions in class.

Research Assistant, Montclair State University and FLAME University, Remote   **June 2021-February 2022**
- Analyzed the influence of religion and empowerment on women's health beliefs using the Indian Human Development Survey 2011-12, with Professor Sangeeta Parashar (Montclair State University) and Professor Tannnistha Samanta (FLAME University).
- Performed Explanatory Factor Analysis and Logistic Regression via STATA.

Data Visualization and Analysis Team Manager, WageIndicator Foundation, Remote   **September 2020- April 2021**
- Managed a team of 21 student interns. The team delivered visualization of minimum wages, collective bargaining agreements and the effects of the COVID-19 pandemic on people's lifestyle.
- Mentored the team on applications of Tableau and Google Data Studio, defined work packets for the team and edited interns' work.

Student Intern, WageIndicator Foundation, Remote   **August 2019- July 2020**
- Researched and collected data on food prices across the world and cleaned salary survey and web traffic data.
- Analyzed and visualized food price, salary and web traffic data using STATA, Tableau and Google Data Studio.

RESEARCH

Tracing more than a century of migration to major cities of India from the Census records, FLAME University, Pune Oct 2021 – April 2022
- I collected migration data for eight of the ten most populated cities in India from 1881 to 2011 under the mentorship of Professor Shivakumar Jolad.
- Census data was used to study intrastate, interstate and international migrant trends.

Chudiyan: A study into the lives of Firozabad's glass bangle industry workers, FLAME University, Firozabad and Pune Sept 2019 – Sept 2020
- Worked with a group of 14 members to study the socio-cultural and economic impact of their glass bangle laborers' work.
- Conducted interviews with bangle workers and factory managers in Firozabad.
- Presented the results through a report, documentary and presentation.
- Our group placed third in both overall winners and best documentary categories among the FLAME University research groups.

EDUCATION

University of Massachusetts, Amherst, MA | Master of Science   **August 2022 – December 2023 (expected)**
- Concentration: Data Analytics and Computational Social Science
- Relevant coursework: Data Science Fundamentals, Research Design

FLAME University, Pune, India

Postgraduate diploma in Interdisciplinary Studies and Research   **June 2021 - May 2022**
- Major: Applied Mathematics, Minor: Economics
- Relevant coursework: Applied Multivariate Statistics, Modelling for Social Sciences, Machine Learning and Natural Language Processing
- GPA: 8.42/10

Bachelor of Science   **July 2018 – June 2021**
- Major: Applied Mathematics, Minor: Economics
- Relevant coursework: Econometrics I, Econometrics II, Mathematical Modelling, Applied Probability
- GPA: 7.79/10

LEADERSHIP

President, FLAME Karate Club, FLAME University, Pune   **August 2018 – May 2022**
- Founded the FLAME Karate Club in 2018.
- The club won Best Recreational Sports Club for 2019-2020 and Best Individual Sports Club for 2021-2022.

Student Karate Coach, FLAME University, Pune   **December 2018- March 2020**
- As I hold a second DAN Black belt, I taught basic and advanced techniques of Karate to 10 to 30 students over six terms.