Sheiladitya Kumar

Statistician | Data Scientist

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Senior Year Statistics Student.
On a mission to make the most of each day.

Professional Experience

May 2021 – January 2021 | **Researcher, Illinois Geometry Lab, Champaign, IL, US**

- Analyzed and Visualized geospatial data using packages such as OSMNX.
- Built machine learning architectures using packages such as Tensorflow.
- Extracted, Cleaned, and Processed data using Pandas and NumPy.
- Effectively worked with a diverse team across multiple timezones.

Teamwork | Python | Databases | Data Analysis | Research | Machine Learning | Data Visualization

Mar 2020 – January 2020 | **Course Grader, ECE 205 - University of Illinois Urbana-Champaign, Champaign, IL, US**

- Graded the Introduction to Electronic Circuits course at UIUC.

Teamwork | Mentorship

December 2019 – July 2018 | **Research Assistant, Center for Plasma-Material Interactions, Champaign, IL, US**

- Conducted experiments, collected, cleansed and analyzed data under timed conditions..
- Analyzed langmuir probe data from various plasmas in programs such as python and MATLAB.
- Processed data needed for plasma and laser diagnostics.
- Worked effectively with a diverse and constantly evolving team.

MATLAB | Research | Teamwork | Python | Data Collection | Data Processing | Microsoft Office | Data Analysis | Leadership | Public Speaking

Education

2021 **B.S.L.A.S. Statistics | University of Illinois at Urbana-Champaign**

- Minor in Mathematics.
- Member of the American Nuclear Society and Poker Club at UIUC.

2017 **International Baccalaurete Diploma Program** | Dubai American Academy

Skills

- Significant experience programming in languages such as Python and C++. As well as MATLAB, R, and SAS.
- Extremely skilled at designing/implementing machine learning architectures.
- Completely comfortable working with diverse and multicultural teams

Projects and Publications

Chaotic Systems — December 2020

Dynamic Systems Github
Analyzed Chaotic Systems, like the Lorenz Attractor, possessing chaotic solutions at various parameters in order to predict the chaotic systems. Tensorflow and TensorBoard were used to implement machine learning architectures such as LSTMs. We were able to simulate the system with great precision as seen by the Lyapunov exponents calculated for each simulated system.

Python | Machine Learning | Data Analysis | Data Processing | Research

ANS Student Conference — April 2019

Poster - ANS 2019
Conceptualized, researched and designed poster on electron temperatures and densities as a function of Oxygen and Argon gas pressures for the 2019 American Nuclear Society's annual student conference.

Research | Data Collection | Data Processing | Analysis | MATLAB | Python

Awards and Honors

Duke of Edinburgh Gold Award

Certificate - DofE Gold
Gold Standard of the Duke of Edinburgh International award.

Interests

Incredibly passionate about data, algorithms, AI, trading, game theory, and kinesics. Studied and played poker for many years.

Languages

English ●●●●●
Hindi ●●●●●
French ●●●○○