JUGAL MARFATIA

Data Scientist | Statistics | Econometrics | Machine Learning | Python | R | SQL

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github.com/jugalm

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EDUCATION

Ph.D. Economics

Washington State University

₩ May 2021

Fields: Econometrics, Industrial Organization.

M.S. Statistics

Washington State University

∰ May 2021

Statistical Computing, Multivariate Analysis, Linear Models

M.A. Economics

San Diego State University

B.A. Economics

Western New England University

₩ June 2015

DATA SCIENCE EXPERIENCE

Data Science/ Regional Models Intern

San Diego Association of Governments (Sandag)

San Diego, CA

- Developed Python based demographic and economic forecasting model adopted by 17 San Diego counties for regional planning. github.com/SANDAG/pydefm.
- Contributed towards the development of real estate forecasting model also based in Python. github.com/SANDAG/sandag_urbansim.
- Created Python/SQL scripts to automate compilation of data from BLS, BEA, Census, California Dept. of finance / Education.
- Developed several visualization and logical check tools for data quality check purposes.
- Made presentations to senior executives and business partners explaining modeling process and results.

Research Assistant

San Diego State University

max August 2015 - May 2017

- San Diego, CA
- Conducted Data/ Statistical analysis on health and elderly care that resulted in 1 published paper. Paper Link.
- Conducted econometric analysis on issues of immigration and income inequality in the United States.
- Cleaned and analyzed large panel data sets with over 1 million observations from IPUMS.

TECHNICAL SKILLS

Programming: Python SQL **Data Science Frameworks:** Pandas SciPv NumPy | Scikit-Learn | Matplotlib Ggplot2 TensorFlow/ Keras Seaborn StatsModel Flask Git

CERTIFICATES

- Deep Learning Specialization.
- Applied Machine Learning in Python.

RESEARCH IN PROGRESS

- Can Google Trends data be used to predict stock returns? Link
- Predicating Health Care Expenditure in U.S.; Learning from Random Forests.

DATA SCIENCE PROJECTS

- "Wimbledon Predictions using Neural Network." published in towards data science. Link
- Top 10 % (bronze medal), Kaggle IEEE-CIS Fraud Detection Competition 2019.
- Top 17 %, Kaggle APTOS 2019 Blindness Detection Competition.

AWARDS

- 2nd prize, Research Poster Competition, SES-WSU 2019.
- Terhune Economics Scholarship, SDSU 2017.
- The Weintraub Research and Center for Public Economics Scholarship, SDSU 2017

TEACHING EXPERIENCE

Instructor

Washington State University

🛗 January 2019 - Present

• Econ 321-Economics of Sports. 3 Semesters.

San Diego State University

- max August 2016 May 2017
- Econ 101-Macroeconomics. 2 Semesters.