SURAJ KUMAR 🖸

CONTACT Block No.5 , House No. 1 Mobile: +91-9654506719 Information Nehru Nagar, New Delhi, India surajdhunna@gmail.com

RESEARCH Macroeconomics, Financial Markets, Computational Economics, Machine Learning, Econometrics

EDUCATION M.A. Economics, Delhi School of Economics, Marks: 68.07% May 2018
B.Tech, Civil Engineering, IIT Delhi, C.G.P.A.: 7.23/10 May 2014

Minor, Business Management, IIT Delhi, C.G.P.A.: 8.25/10

May 2014

ACADEMIC ACHIEVEMENTS

Interests

• Secured All India Rank 2 and received Manmohan Singh Fellowship in DSE 2016-17

ACHIEVEMENTS • Secured All India Rank 1061 in AIEEE among 10,50,000+ students 2010

Professional Service

Research Associate, CAFRAL, Reserve Bank of India Sep. 2022 - Present

- Analyzed the impact of political constraints on monetary policy in 15 EM countries.
- Estimated monthly-state panel inflation data using *local projection framework* to examine the relationship between food, fuel and core inflation.
- Constructed the opacity scores of NBFCs from credit ratings of corporate bonds.

Analyst, India Economics Team, Goldman Sachs

June, 2020 - Aug, 2022

- Contributed to writing thematic reports and conducted econometric analysis on short-term and medium-term drivers of inflation, the RBI's reaction function, determinants of India trade deficit, and fiscal balance.
- Published regular comments and provided forecast on India's macro data releases:- inflation, growth, industrial production, the RBI policy rate, trade and fiscal balance. Published weekly and monthly tracker of economic indicators and COVID-19.
- Constructed proprietary GS India Consumption and Investment indices, and devised GS India stringency index from lockdown policies of 10 key states.

ML Model Developer, American Express

Jan, 2019 - Mar, 2020

- Made Big Data ML models using AXGBoost to predict spend of prospective US customers acquired through telemarketing and sales representative channels.
- Ensured correct implementation of telemarketing Net Response Rate (NRR) Model in production by leveraging SQL and Linux shell scripts.

Model Validator, Credit Suisse

July, 2018 - Dec, 2018

DATA SCIENCE/ STATISTICAL PROGRAMMING COMPETITIONS • Secured Rank 2 in American Express Analyze This 2017

• Used machine learning classification algorithms to target credit card prospects. Used R and Python; **Models Used**: Multinomial Logistic Regression, Random Forest and Support vector machines

• Secured Rank 1 in Credit Suisse FinStats 2017 Competition

Dec 2017

August 2017

Course Projects

Dynamic Programming Model of the Economy

Jan, 2018 - March, 2018

• Used Python to program Two State - One Control Bellman Equation Model in Lucas Asset Pricing Economy QJupyter Notebook

TECHNICAL SKILLS Computer Programming: R, Python, SQL, Hive, Shell Script, SAS, LATEX Data Analysis Tools: STATA, Excel, Eviews, MATLAB, ArcGIS

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