

Rohith Krishna

3B, 71/7 Shiyam Srinivas, 1st Main Road, R.A. Puram, Chennai, Tamil Nadu 600028

☎ +91 8667213024 | ✉ rohithkris96@gmail.com | 🏠 rohithkrishna.in

in @rohithkris96 | 🌐 rohithmay

Education

- 2019 – 21 **PGDM in Research & Business Analytics**,
Madras School of Economics, CGPA – 9.16.
- 2017 – 19 **Masters in Physics**, *DG Vaishnav College, University of Madras, CGPA – 9.10.*
- 2014 – 17 **Bachelors in Physics**, *RKM Vivekananda College, University of Madras, CGPA – 8.80.*
- March 2013 **Senior Secondary**, *The Hindu Colony Chellammal Vidyalaya, Chennai, Score – 90.8%.*
- March 2011 **Secondary**, *The Hindu Colony Chellammal Vidyalaya, Chennai, CGPA – 10.0.*

Technical skills

Languages	C, Python, SQL, SAS, HTML, Julia*
Documentation	L ^A T _E X, Markdown, MS Office
Software Packages	Stata, Tableau, Pyspark, Hive

Experience

- Feb 2022 – present **American Express. Analyst-Product Development.** Working on Regulatory models for US Consumer Credit cards portfolio.
- Aug 2021 – Jan 2022 **Epsilon Data Management, LLC. Data Analyst.** R&D projects on development of new marketing analytics products. Working on probabilistic models customer segmentation, attrition and lifetime value. NLP models to improve customer email engagement.

Internships

- Aug 2020 – May 2021 **Dvara Research. Consultant.** Extracting macroeconomic variables from household data, using PCA, clustering algorithms: EM, K-means. Dashboarding panel data: 440 variables & 300 million entries each per month with PySpark, SQL, AWS & Tableau. Automated Data Cleaning using STATA .do and pipeline creation for various data requirements. Study of income volatility using GARCH/Stochastic models.
- Apr 2020 – Jul 2020 **Modeling Exchange Rate Volatility: Central Bank's response. Summer Intern at Reserve Bank of India.** Modeled the volatility of the Rupee in the foreign exchange market and studied the monetary response function under an inflation-targeting regime, using ARMA, GARCH and EGARCH time-series models.
- Oct 2018 – Mar 2019 **Electronic structure and thermoelectric properties of intermetallics. Masters thesis at Anna University** Identified the intermetallic Yb₂Ge as a novel and viable thermoelectric. Performed DFT calculations using Quantum ESPRESSO by implementing both the LDA and GGA algorithms of the Kohn-Sham equation.
- Apr 2016 – Jun 2016 **On the relation between agM, elliptic integrals & the time period of a pendulum. Research Fellow at the Indian Academy of Sciences.** Proved a method for computing the arithmetic-geometric mean (agM) of two numbers using Gauss' theorem on elliptic integrals.

Publications

- Aug 2021 **Household Savings & The Macroeconomy.** On the question: Does macro-level variables co-move with micro-level economic variables? *Preprint available [here](#).*

Projects

- Apr 2020 **Patterns in US States in COVID-19 spread using K-Means and Hierarchical clustering.** Investigated an exploratory analysis of US COVID-19 data by performing clustering of states through pandemic, health and economics factors.
- Mar 2020 **Determinants of Life Expectancy.** Analysis of country-level macroeconomics and health related data to determine life expectancy of an individual based on a linear regression model.
- May 2020 **What motivates employees to gossip?** An analysis of literature in organizational behaviour pertaining to gossip and its inferences for HR in workplace management.
- Sep 2019 **On WARP, consistency and motives in buying behaviour.** *Project at Madras School of Economics.* Studied motives underlying consumer behaviour, and the impact of poverty on consumer rationality. Conducted an experiment that tests consumer choices for consistency based on the Weak Axiom of Revealed Preference.
- May 2018 **Modeling physical systems using the Dirac Delta Function.** *Intern at Madras University* Solved the Laplace equation. Investigated some properties of the Dirac Delta function including its Fourier and Laplace transforms. Modelled impulse systems such as the hammer-blow response of a mass-spring system.
- Sep 2014 **Simulating nonlinear dynamics exhibited by the double pendulum.** Constructed a double pendulum and simulated its dynamics using Mathematica. Solved the underlying differential equations through numerical methods.
- May 2012 **Models using Chaotic maps.** *Research Intern at IIT Madras.* Studied chaotic maps such as the logistic map & Baker's map and linked them to biological population growth models. Explored the dynamics of physical systems using this analogy.

Achievements

- Class of 2021 Gold medallist for securing the 1st rank in the PGDM program at MSE.
- Class of 2019 Proficiency Prize at DG Vaishnav College for emerging as topper in Masters program.
- Class of 2017 Proficiency Prize at RKM Vivekananda College for emerging as topper in the Bachelors program.
- 2014-15 NIUS Science Fellow at HBCSE, TIFR, Mumbai, for pursuing study and research of Quantum Mechanics, Astrophysics and Particle Physics.
- 2012 Research Science Initiative fellow at IIT Madras for research in Non-linear Dynamics.
- 2010-11 INSPIRE Award by the Department of Science and Technology, Govt. of India.

References

- Reference 1 Dr. Indradeep Ghosh, Executive Director, Dvara Research,
[mailto: Indradeep.Ghosh@dvara.com](mailto:Indradeep.Ghosh@dvara.com)
- Reference 2 Dr. Rakesh Nigam, Principal (PGDM), Madras School of Economics,
[mailto: rakesh@mse.ac.in](mailto:rakesh@mse.ac.in)