CHACKO BABU

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SUMMARY

- Highly experienced in handling data at various stages of its' life cycle: collection, tidying, summarizing, vizualising, analysing, testing of hypotheses etc.

- Have an intitutive understanding of most programming languages and a strong foundation in statistics and econometrics.

- Have completed several machine learning and artificial intelligence projects (few of which are listed on my website).

EMPLOYMENT

Research Associate | Mizuho India Japan Study Center, IIM-Bangalore   2021 November - Present

- Analysis and visualization of data from factories' production floors for metrics such as line-efficiency, synchronization ratio etc, to identify areas that need improvement.

- Part of a team that creates an index to rank small manufacturing entreprises and start-ups based on various selected parameters, inorder to connect investment seeking entreprises and Japanese investors.

Academic Associate | Dept. of Economics and Social Sciences, IIM-Bangalore   2018 August - 2021 July

- Contributed significantly in various empirical research projects in fields of international trade, migration, behavioral economics, financial economics etc.

- Extracted data from various sources to build models and test various hypotheses using statistical and econometric methods.

- Worked as a Teaching Assistant which involved routinely taking tutotrials for management students, associating closely with professors in research for course material, and co-ordinating class room activites in general; major courses handled were Advanced Microeconomics, Adavanced Macroeconomics, Financial Economics.

Research Assistant | Centre for Development Studies, Thiruvananthapuram   2017 July - 2018 March

- Worked on a paper on intergenerational occupational mobility in India and Kerala.

- Handled multiple rounds of large scale datasets of National Sample Survey for the study, along with other datasets such as KLEMS by RBI.

- Contributed to a project by tidying up large volumes of primary survey data, and making it analysis ready.

PROJECTS

Data Science Project | NSRCEL (start-up hub), Indian Institute of Management, Bangalore

- Analysed results of a primary survey on women entrepreneurs (participants of Goldman Sachs 10k Women program) for challenges they face in their entrepreneurship journey.

- Used artificial intelligence techniques such as NLP (specifically sentence-clustering), sentiment analysis etc in the analysis.

- Presented the results of the analysis with visualisations and tables (descriptive statistics) to the team for the purpose of improving the program in future.

Data Analysis Project | National Law School India University, Bangalore

- Analysed results of a primary survey done among migrant construction labourers in Bangalore to probe the question of efficacy of government welfare schemes.

- Apart from analysis and visualization, was involved in many stages of the data's life cycle, particularly designing the survey, modelling the data, tidying etc.

Data Analysis Project | Center for Development Studies, Thiruvananthapuram

- Updated an ILO report on wages in India with latest values from Periodic Labour Force Survey of 2017-18 and 2019-20.

- Reviewed academic and non-academic literature for methodologies of calculating the desired metrics and to compare the accuracy of our results.

- Culled out the trends and descriptive statistics on selected variables from the large scale datasets.

COMPETENCIES

Data wrangling, analysis, visualization	(●●●●◗), proficient in extracting, cleaning large datasets, and conducting various statistical and econometric analyses on them. Languages: **Python**, **R** Softwares: **Stata, Tableau, Microsoft Excel, LibreOffice Calc**
Documentation	(●●●●○), proficient in reviewing academic literature and preparing documents in various formats. Tools: **LaTeX, Markdown, HTML**, **Microsoft Word**
Programming & creative coding	(●●●◗○), tools: **Python**, **p5.js**, **CSS**
Machine Learning & Artificial Intelligence	(●●●◗○), tools: **Python**

EDUCATION

MA Economics | Mardas Christian College, Chennai   2013-2015

- Analysed the socio-economic profiles of migrant labourers in seafood processing firms in Alappuzha, Kerala; data was collected using a primary survey of a total 70 of laborers from seven seafood processing units.
- Held the position of convenor of annual inter-collegiate economics fest, "Artha" in my second year.

BA Economics | St Joseph's College of Arts and Science, Bangalore   2010-2013

- Submitted critical analysis of 'Kerala Model of Development' and its contemporary relevance as final year dissertation.
- Taught english lessons for students of lesser privileges of St. Micheals School in Bangalore for a period of three months, as an active participant of National Service Scheme

AWARDS

National Eligibility for Lectureship in Economics | University Grants Commission of India   2017 November

ADDITIONAL CERTIFICATES

- **Data Scientist Career Path** | Codecademy   (See progress)
- **BI Dashboards with Tableau Course** | Codecademy   (See credential)
- **Fundamental Math for Data Science Skill Path** | Codecademy   (See credential)
- **Master Statistics with Python Skill Path** | Codecademy   (See credential)

MISCELLANEOUS

Languages	**Malayalam** (native), **English** (fluent), **Hindi** (working)
Hobbies & Interests	sketching and painting, reading novels, cycling