

Chittaranjan Velambur Rajan

University of Michigan | Applied Statistics | [chittaranjan19.github.io](https://github.com/chittaranjan19)

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EDUCATION

- **University of Michigan** Ann Arbor, Michigan
M.S. in Applied Statistics; Current GPA: 3.53/4.0
Statistical Learning, Data Science with Python, Probability Distribution Theory *Aug. 2021 – May. 2023*
- **PES University** Bangalore, Karnataka
B.Tech in Computer Science; GPA: 9.08/10.0
Data Analytics, Machine Learning, Cloud Computing, Design Patterns *Aug. 2014 – May. 2018*

TOOLS AND TECHNOLOGIES

- **Languages:** Python, R, Java, Javascript, C/C++ **Technologies:** AWS, Docker, Kubernetes, Git
- **Libraries:** Pandas, Jupyter, Tensorflow, Numpy, Scipy **Frameworks:** Java Spring, React

WORK EXPERIENCE

- **Nasdaq** Bangalore, Karnataka
Software Developer Specialist (New Markets Financial Framework) *Nov 2019 - July 2021*
 - **Blockchain:** Integrated trading solutions with a ledger to facilitate real-time settlements*Senior Software Developer (New Markets Financial Framework)* *July 2018 - Nov 2019*
 - **Trading Solutions:** Built a marketplace for a healthcare client, to enable trade of patient health data*Summer Intern (Globenewswire)* *June 2017 - July 2017*
 - **Neural Network:** Predicted an optimal time for clients to publish their press release, for maximum viewership
- **Center for Knowledge Analytics and Ontological Engineering** Bangalore, Karnataka
Research Intern – Quantification of Cricketer Versatility *May 2016 - July 2016*
 - **Publication:** S. Radhakrishnan, **C. Velambur** and K. Mahesh, "V Score —A Data Analytical Versatility Metric For Cricket," 2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI), 2018, pp. 1569-1573, doi: 10.1109/ICACCI.2018.8554729. ([source](#))

PROJECTS

- **AI Based Musical Assistant for Pianists:** [CNN, N-Grams, MIDI APIs, [source](#)]
 - **Prototype:** Leveraged rules from music theory and ML models to improve self-efficacy in novice pianists
- **Analysis of trends in Competitive Coding:** [EDA, Visualization, Web-Scraping, [source](#)]
 - **Analysis:** Explored whether problem solving skills (in competitive coding) are an acquired or developed trait
- **Determine complexity of coding problem:** [LSTM, Neural Networks, [source](#)]
 - **Objective:** Used ML/DL to determine the complexity of a competitive coding problem, given a text prompt of the question (Accuracy: 60% for 3-way classification)
- **Query-able Indexes for Zoom meetings:** [AWS Lambda, Transcribe, S3, API Gateway]
 - **Hackathon:** Made Zoom meetings searchable for information presented in the recording
- **Face Recognition for Social Events:** [AWS Lambda, Rekognition, S3]
 - **Hackathon:** Filtered only relevant pictures for a user from a large collection of images
- **Voice Controlled AR-VR experience generator:** [AFrame, Google Speech-To-Text]
 - **Hackathon:** Used voice commands to build scenes viewable with VR headsets

TEACHING EXPERIENCE & INVITED TALKS

- **Python Instructor:** Section Leader for Stanford's "Code In Place" MOOC (2021)
- **Principles of Software Engineering:** Invited Speaker at IISc (2019)
- **Web Dev with React:** Guest Lecture @ PES University (2019)
- **Teaching Assistant:** Advanced Algorithms, with CLRS (2017)