

Pranav Ramesh

Research Assistant, University of California, Davis, USA

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RESEARCH INTERESTS

Deep Learning, Quantum Machine Learning, Quantum Neural Network, Spatiotemporal Analysis, Time Series Analysis

EDUCATION

University of California, Davis, USA

Master of Science in Statistics - Data Science Track

Sep 2022 — Dec 2023

Cumulative GPA: 3.67/4.00

Birla Institute of Technology and Science, Pilani, Dubai, UAE

Bachelor of Engineering in Computer Science

Minor in Data Science

Aug 2018 — May 2022

Cumulative GPA: 9.05/10.00

PROFESSIONAL EXPERIENCE

University of California

Davis, CA, USA

Research Assistant

Feb 2024 – Present

- Perform clustering analysis on Water Quality Dataset using Time Series in Python and R. To analyse which features are important for the clustering process. Similarity in features within clusters. To understand if interpolation, makes any significant difference in analysis. This project is near publication.
- Predict the probability of countries paying back their debt using World Bank Debt Data, with "Credit Rating" as the response variable, and visualize common Multilateral and Bilateral Banks that provided the most debt. This project is completed.

Esri Inc.

UAE

Software Development Engineer Intern

Aug 2021 – Jan 2022

- Leveraged Python, Microsoft Azure, and Terraform to optimize data processing workflows, enhance accessibility of Mosaic Dataset for 1000's of customers, provision critical resources, and conduct comprehensive regression testing for the company's Python API.
- Published diverse imagery into ArcGIS Online, improving usability for end-users, while also developing Python scripts for SAZ (Session Archive Zip) and automated email notifications to streamline communications process.

Levtech Consulting (now InTWO)

Dubai, UAE

Student Intern

Jun 2020 – Aug 2020

- Designed and developed an engaging landing page for the company using industry-leading design tools, Adobe Photoshop and Adobe Illustrator, resulting in increased user engagement and conversion rates.
- Leveraged Microsoft 365 Dynamics to analyze and interpret 1000s customer data, enabling data-driven decision-making.

PROJECTS

Project Name

#City, #Country

Your Position

#Month #Year — #Month #Year

- # Description of your job duty and responsibilities.
- # Description of your job duty and responsibilities.
- # Description of your job duty and responsibilities.

PUBLICATIONS

- Ramesh, P., & Jothi, J. a. A. (2022). "Predicting Covid-19 Cases for 12 Countries using Long Short-Term Memory." 2022 International Conference on Engineering and Emerging Technologies (ICEET), <https://doi.org/10.1109/ICEET56468.2022.10006845>.
- Sulthana A, R., & Ramesh, P. (2022). "Predicting the import and export of commodities using support vector regression and long short-term prediction models." International Journal of Computing and Digital Systems, 11(1), 635–647, <https://dx.doi.org/10.12785/ijcds/110151>

RELEVANT COURSEWORK

Master's Courses

- STA 209: Optimization for Big Data Analytics
- STA 237: Time Series Analysis
- STA 221: Big Data & High Performance Statistical Computing
- STA 243: Computational Statistics
- STA 206 & 207: Statistical Methods and Research
- STA 141B: Data & Web Technologies for Data Analysis

Bachelor's Courses

- CS F415: Data Mining
- CS F211: Data Structures and Algorithms
- CS F407: Artificial Intelligence
- BITS F464: Machine Learning

CERTIFICATIONS

- **Variational Algorithm Design, IBM Certificate** July 2024
- **Basics of Quantum Information, IBM Certificate** July 2024
- **Practical Introduction to Quantum-Safe Cryptography, IBM Certificate** July 2024
- **Google Advanced Data Analytics, Grow with Google on Coursera Certificate** April 2024
- **Google IT Automation with Python, Grow with Google on Coursera Certificate** April 2024
- **Google Data Analytics, Grow with Google on Coursera Certificate** April 2024
- **6.419x: Data Analysis: Statistical Modeling and Computation in Applications, MITx on edX** Jan 2022
Certificate Credential ID: 34eefa49e7324541834d519b5194c2c7
- **6.86x: Machine Learning with Python-From Linear Models to Deep Learning, MITx on edX** Nov 2021
Certificate Credential ID: cecb5534a3a940f98d75f29d60122b52
- **18.6501x: Fundamentals of Statistics, MITx on edX** Sep 2021
Certificate Credential ID: 3349fa4b6a654532a01817ae2e1d1c6b
- **6.431x : Probability - The Science of Uncertainty and Data, MITx on edX** Dec 2020
Certificate Credential ID: 4b5d7796d1ce4ba595585198b77d9b9f

TEACHING EXPERIENCE

University of California, Davis (Quarter System)
Graduate Teaching Assistant

- **STA 141A: Fundamentals of Statistical Data Science** Fall 2023
- **STA 013: Elementary Statistics** Spring 2023, Summer 2023

Birla Institute of Technology and Science, Pilani, Dubai (Semester system)
Lab Assistant

- **CS F211: Data Structures and Algorithms** Winter 2022

SKILLS

- **Programming:** Python, R, Java, C++, SQL
- **Software:** Qiskit, NumPy, pandas, matplotlib, seaborn, Scikit-learn, pytorch, TensorFlow, keras, Statsmodels, Scipy, Plotly, ARIMA
- **Cloud:** AWS, Azure, Terraform

REFERENCES

Prof. Miles Lopes

Associate Professor, Department of Statistics, UC Davis, Davis, CA, USA

E-mail: melopes@ucdavis.edu

Scholar Profiles: Miles Lopes - Personal Page — Google Scholar — LinkedIn

Maxime Pouokam, Ph.D

Lecturer, Department of Statistics, UC Davis, Davis, CA, USA

E-mail: mpouokam@ucdavis.edu

Scholar Profiles: UC Davis - Personal Page — Google Scholar — LinkedIn