

## Curriculum Vitae of Pranav Ramesh

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**Research Interest ::** Spatiotemporal Deep Learning, Time Series Analysis, Quantum Computing

**Technical Skills ::** Python (Qiskit, NumPy, Matplotlib, Pandas, Seaborn, Statsmodels, TensorFlow, Scikit-learn, Plotly), R, C++, Java, SQL

### 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>

### Projects

### Experience

**University of California**

Davis, CA, USA

**Research Assistant**

Feb 2024 – Present

- 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.
- Build and fine-tune a Python model to forecast the probability of repayment based on various debt parameters, and analyze the model's performance using loss and accuracy metrics.
- Analyzing, Visualizing and Modeling another Water Quality Dataset using Time Series in Python.
- Project/Publication still in progress.

**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 (Remote)

**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.

### Teaching

**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

**Certifications**

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

**Education**

<b>University of California</b>	Davis, CA, USA
Master of Science, Statistics - Data Science Track.	Dec, 2023

- GPA: 3.67/4.00
- Relevant Coursework: Optimization in Machine Learning, Time Series Analysis, Deep Learning, Statistical Machine Learning, Parameterized and non-parameterized Linear Regression

<b>Birla Institute of Technology and Science, Pilani</b>	Dubai, UAE
Bachelor of Engineering, Computer Science.	May, 2022

- CGPA: 9.05/10.00
- Relevant Coursework: Data Mining, Artificial Intelligence, Machine Learning, Deep Learning, Data Structures and Algorithms.
- Awarded merit scholarship for 7 out of the 8 semesters in undergraduate degree.