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
- Analyzing, Visualizing, and Modeling a Water Quality dataset using Time Series methods 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

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**
Certificate Credential ID: 34eefa49e7324541834d519b5194c2c7 Jan 2022

6.86x: Machine Learning with Python-From Linear Models to Deep Learning, **MITx on edX**
Certificate Credential ID: cecb5534a3a940f98d75f29d60122b52 Nov 2021

18.6501x: Fundamentals of Statistics, **MITx on edX**
Certificate Credential ID: 3349fa4b6a654532a01817ae2e1d1c6b Sep 2021

6.431x : Probability - The Science of Uncertainty and Data, **MITx on edX**
Certificate Credential ID: 4b5d7796d1ce4ba595585198b77d9b9f Dec 2020

Education

University of California Davis, CA, USA
Master of Science, Statistics - Data Science Track. GPA: 3.67/4.00 Dec, 2023
Relevant Coursework: Optimization in Machine Learning, Time Series Analysis, Deep Learning, Statistical Machine Learning, Parameterized and non-parameterized Linear Regression

Birla Institute of Technology and Science, Pilani Dubai, UAE
Bachelor of Engineering, Computer Science. CGPA: 9.05/10.00 May, 2022
Relevant Coursework: Data Mining, Artificial Intelligence, Machine Learning, Deep Learning, Data Structures and Algorithms.