

Eshan Ramesh

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esrh.me

Education

- 2021-Present **B.S Computer Science**, *Georgia Institute of Technology*, Atlanta, GA, Anticipated graduation in 2023.
- 2017-2021 **Scholar with distinction**, *Oviedo High School*, Oviedo, FL, Graduate.

Experience

- 2021-Present **Researcher**, *Agile communications and architectures vertically integrated project*, Dr. Matthieu Bloch, Atlanta, GA.
Working with deep learning for radio communications in python. Developing indoor-localization technology.
Technology: GNUradio, Software Defined Radios(USRP), Python, Scikit-learn, PyTorch, NumPy.
- 2020 **Researcher**, *Florida State University Young Scholars Program*, Tallahassee, FL.
Analyzed plankton biomass data from National Ecological Observatory Network. Identified significant variables out of 44 water chemistry metrics, then trained 7 regression models including neural networks.
Technology: Python, Tensorflow, NumPy, Pandas, Matplotlib, Scikit-learn.
- 2019-2020 **Researcher**, *Oviedo High School*, Oviedo, FL.
Worked on recurrent neural networks to forecast ocean carbon and acidification patterns to compete in science fair.
Technology: Python, Tensorflow, NumPy, Pandas, Matplotlib, Scikit-learn.

Projects

- py-NEONutils Library to download and organize NEON(National Ecological Observatory Network) data. Used Python and Pandas.
- AMES Generate audiovisual context for spaced-repetition flashcards automatically. Written in shell.

Computer skills

- Languages **Python, Java, C++, Shell**
- Technology **GNU/Linux, Git, \LaTeX , Emacs**
- Libraries **Tensorflow, NumPy, Pandas, Matplotlib/Seaborn, Scikit-learn**

Hobbies

- Competitive programming
- Contributing to free/open source software
- Language learning

Languages

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| English | Native | |
| Kannada | Native | |
| Japanese | Fluent | <i>Comprehensible input/immersion approach</i> |
| French | Beginner | <i>Studied in high school</i> |