

Satvik Kishore

Education

Duke University

Durham, NC

Masters in Interdisciplinary Data Science. GPA: 4.0

2021–2023

Relevant Courses: Statistics, Machine Learning, Cloud Engineering, Natural Language Processing, Computer Vision and Medical Imaging, Causal Inference

Indian Institute of Technology Madras

Chennai, India

B.Tech., Materials Engineering

2013–2017

Minor: Industrial Engineering

Publications

- Kishore, S., Thomas, T., Sachdev, H., Kurpad, A. V., & Webb, P. (2022) Modeling the potential impacts of improved monthly income on child stunting in India: a subnational geospatial perspective. *BMJ Open*, 12:e055098. <https://doi.org/10.1136/bmjopen-2021-055098>
- Shivakumar, N., Kashyap, S., Kishore, S., Thomas, T., Varkey, A., Devi, S., Preston, T., Jahoor, F., Sheshshayee, M. S., & Kurpad, A. V. (2019). Protein-quality evaluation of complementary foods in Indian children. *The American journal of clinical nutrition*, 109(5), 1319–1327. <https://doi.org/10.1093/ajcn/nqy265>

Research Experience

Interpretable AI for diagnosing breast cancer

Summer 2022–Present

- Building convolutional neural networks with additional prototype layers.
- These models provide diagnoses on malignancy of breast tissue along with informing the physician why the model has made the prediction.

Earthquake Early Warning Detection, Duke University

Summer 2022

- Built a prototype Machine Learning model to detect incoming Earthquakes from seismological data.
- Improved upon state the current state of the art methods by 40%.

Professional Experience

Data Scientist, St. John's Research Institute

2017–2021

Projects

Brain Tumor Segmentation

Spring 2022

- Built machine Learning Models to segment brain tumour images and detect regions where tumor exists

Optimizing CT scan slice count through Lesion detection using YOLO

Spring 2022

- Simulated CT scans and optimized number of CT slices needed to detect lesions

Does Airbnb listing's annual revenue vary by with host status?

Spring 2022

- causal inference from airbnb

AWS Cloud Tweet Generator

Fall 2021

- An AWS powered tool that generates new relevant tweets everyday

Star Trek: Analysis of Episodes

Fall 2021

- A statistical analysis of four star trek TV shows to evaluate character perception.

Certifications

- AWS MLCertification