Hi

I'm Sumanth and I love to build things!
My undergraduate thesis was an investigation into increasing the penetration of wind energy and other renewable sources into the electrical grid using tools of Statistical Learning, including Regression and Time Series.
I graduated with a Master's Degree in Computer Engineering by working on the applications of using a drone and a rover in a Manufacturing environment at Triumph Gear Systems and implementing an image processing system to detect damage in coral reefs using the data taken from French Polynesia and Ayers Rock, Australia.

Professionally, **I have gained experience in all parts of a Machine learning pipeline, from data preprocessing to building the core classification system all the way to interpretation of the results and communicating them to the stakeholders.**
Currently, I'm leading the Computer Vision/Imaging track as part of the R&D team at CYTED, a biotech venture spun out of the University of Cambridge.
I launched the effort to design segmentation models to accurately calculate the length of Barrett's tissue as well as working with the rest of R&D to build a multimodal network integrating data from Genomics and other data sources.
I also collaborated with Microsoft Research to work on Weakly Supervised models for Barrett's prediction and our work was published in Nature.
Previously, I was a data scientist at Sperry Rail systems, I'm building Neural Networks to detect flaws in rails using images captured from Ultrasound for customers such as Canadian Pacific, Canadian National, Amtrak and BNSF.

At this point, I'm looking for a role to continue building new things and be responsible for a wider range of things, from data exploration to model prototyping all the way to deployment by working with small teams.
Head over to my GitHub to see a few fun things in Python, C++ and R. In my spare time, I love working on datasets from a diverse set of sources, ranging from Movies to Income demographics to even High Energy Particle Physics.
One of my most memorable experiences was working with EWB Canada to propose a FinTech company to alleviate the problem of malnutrition in Haiti. I was responsible for the core business model and convinced my team to adopt a more holistic approach than focusing exclusively on the diet.
Hit me up @sumanthpv.venkateshmurthy@alum.utoronto.ca to talk about this application or any of my other interests, such as reading financial history (Niall Ferguson and Daron Acemoglu) and science-fiction (I love Neal Stephenson and Daniel Suarez), tinkering with old computers and watches, flying planes and climbing rocks!

Best
Sumanth