

- ## Skills

Projects

- **mgcpy (hyppo)**: A comprehensive high-dimensional independence and k-sample testing Python package. The code/package has been merged into *SciPy* and the *research paper* has been submitted to the Journal of Machine Learning Research (JMLR) and the Journal of Statistical Software.
- **Distributed Panorama Construction from High-Resolution UAV Images Using Public Compute Nodes**, Indian Space Research Organization (ISRO), Smart India Hackathon 2018. Won the 1st place in this nation-wide hackathon. It was covered by *The Hindu & Times of India*.
- **COVID-19 Search Engine**: Localized and Personalized Search Engine for keeping track of the dynamic and huge inflow of information during the COVID-19 global pandemic. Our search engine crawls, aggregates, indexes and searches/retrieves information from local news sources in Baltimore and reports back relevant and personalized results to the user.
- **Pokémon VQA**: Solves the Visual Question Answering problem in the *Pokémon* domain with an accuracy of 65.9%.
- **Universally Compatible and Accessible, Software Controlled, Expandable Home Automation Systems**: This research project was funded by the Innovation Center at the *Sri Sivasubramaniya Nadar College of Engineering* (SSN CE, affiliated to Anna University). It was also published as a paper titled: “*Home Automation Systems - A Study*” in *IJCA* (cited 45 times). Indian Patent Ref. ID: 5729/CHE/2015.

Leadership & Achievements

- **Merit Scholarship** (Full), for *Excellence in Academics*, SSN College of Engineering, Anna University.
- **Microsoft Research** certified, for proficiency in “*Design and Analysis of Algorithms*”.
- **Government of India, Industry Mentor**, for 2 consecutive years at the *Smart India Hackathon* (world’s largest).
- **Association for Computing Machinery (ACM)**, *Chairman* (2015-16), *Treasurer & Tech Lead* (2014-15), SSN CE.
- **Outstanding Student Organizer Award** (2016), *ACM Student Chapter*, SSN CE.