

SREEKAR CHIGURUPATI

Graduate student specializing in neuroengineering with software development & big data experience

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📧 sreekarchigurupati 📄 sreekar-chigurupati

EXPERIENCE

Research Intern

Garyfallidis Research Group

Among the world's leading neuroimaging research groups

📅 October 2021–Now 📍 Bloomington

- Working on improving performance of neuroimaging software using GPU acceleration
- Working at the headquarters of **DIPY**, one of the most widely used open-source libraries for neuroimaging & computational anatomy

Senior Software Engineering Associate

Telstra

Australia's largest telecommunications provider

📅 July 2018–August 2021 📍 Hyderabad

- Developed a petabyte scale data warehousing and order insights platform using Spark with a processing throughput of 10 million events per hour
- Architected an industry led elective course to upskill students on modern enterprise development methods for a class size of 30

AWARDS

- 🏆 **Winner, Telstra Innovation Hackathon 2019**
Placed 1st in a hackathon event across Telstra and its partners for designing an approach that reduces broadband transition cycle time by 25%
- 👥 **Dream team of the year, Telstra**
Conferred the "Dream team of the year" award for building an internal marketplace that matches employee skills and interest with business strategy.

PROJECTS

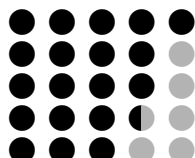
Crop failure prediction using Normalized Difference Vegetation Index (NDVI)

BITS Pilani

- Correlated vegetation index changes with climatic factors using hyperspectral satellite imagery
- Used the correlation model to predict crop failure in monsoon dependent regions of India

PROGRAMMING

Python
Java
Javascript
React.JS
C++



EDUCATION

M.S. in Intelligent Systems Engineering

Indiana University

Specialization in Neuroengineering

📅 Aug 2021 – May 2023 📍 Bloomington, IN

Courses:

Elements of AI Intro to Neuroengineering
Neural Science Networks of the Brain
Reinforcement Learning Computer Vision

- Graduate & Professional student government representative (Elected)

B.E.(Honours) in Electronics and Communication Engineering

Birla Institute of Technology & Science, Pilani

Declared an Institute of Eminence by the Government of India

📅 2014 – 2018 📍 Hyderabad, India

Courses:

Signals & Systems Object Oriented Programming
Information Retrieval Digital Image Processing

- Vice president of "Engineers without borders" university chapter

SKILLS

Machine Learning & Data

Search Regression Clustering CNN MapReduce
Decision Trees Ensemble Methods Bayes nets
Hidden Markov models Probabilistic Inference

Tools, Frameworks & Packages

Spark AWS ElasticSearch SQL
Microservice Architecture FURY DIPY scikit-learn
Pandas NumPy/SciPy D3.js Visualisation

Neuroscience & Biology

Molecular Bioinformatics MRI PCR
CRISPR

Soft Skills

Initiative Team Player Easy to work with
Empathy

Interests

🚴 Cycling 📝 Blog Writing