

SREEKAR CHIGURUPATI

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

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📧 sreekarchigurupati 📄 sreekar-chigurupati

EXPERIENCE

Research Assistant

Garyfallidis Research Group

Among the world's leading neuroimaging research groups

📅 October 2021–Jan 2022 📍 Bloomington

- Worked on improving performance of neuroimaging software using GPU acceleration
- Working on susceptibility distortion correction of diffusion MRI using deep learning. Working on clustering techniques that work well with high-dimensional data
- 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

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

EDUCATION

PhD in Intelligent Systems Engineering & Neuroscience

Indiana University

Dual Major

📅 Starting Aug 2022 📍 Bloomington, IN

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)
- Teaching Assistant for "Image Processing in Medical Applications - Spring 2022"
- Associate Instructor for "Statistical Techniques - Fall 2022"

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

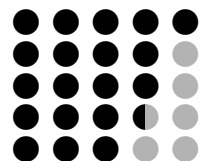
Courses:

Signals & Systems Object Oriented Programming
Information Retrieval Digital Image Processing

- Vice president of "Engineers without borders" university chapter

PROGRAMMING

Python
Java
Javascript
React.JS
C++



Interests

🚴 Cycling 📝 Blog Writing