1123 Marsh trail Circle
Sandy Springs GA 30328

Pranav N. Suresh

312-972-7825
Pnadigapusuresh1@gsu.edu

EMPLOYEMNT

Graduate Research Assistant **Georgia State University** **August 2019 - Present**

- Performed research analysis on predicting the ADHD symptom trajectory by performing deep learning on Neuroimaging data
- Improved distributed model performance by implementing a novel deep learning augmentation method for 3D convolution
- Published research paper in EMBC/IEEE journal
- Supervised three masters students on their research projects

Software Developer **Implantable Provider Group** **September 2016 – July 2019**

Reduced manual entry time by introducing and automating B2B data exchange via the HL7 message parsing saving over 400 hours/week

- Implemented webservices using .NET and deployed via Azure API management allowing for secure B2B data exchange
- Assisted higher management in signing effective data contracts with healthcare providers by developing visualizations highlighting the different metrics of data
- Improved the User Experience by upgrading the pre-existing web layout to Bootstrap 4
- Optimized SQL queries by introducing the PIVOT operator leading to 75% faster query performance

EDUCATION

Ph.D. in Computer Science, GPA: 3.87 **Georgia State University** **May 2024**

- Coursework: Advanced Algorithms; Machine Learning; Deep Learning; Bioinformatics; Computer Networks; Data Security

PROJECTS

- **Pollsters**: An NLP Supervised ML project that takes in public user tweets and tries to predict if the user is a Democrat or a Republic. Later extended to perform brand sentiment recognition. Deployed on AWS via Sagemaker endpoint.
- **Efficient congestion control in 5G/6G networks:** Maintains congestion control in the network by assigning the new incoming connection to the appropriate network slice based on its historical properties. Uses hybrid deep learning methods to achieve 93% efficiency.
- **Coinstac:** Software to foster collaborative research, removing large barriers to traditional data-centric collaboration approaches. It enables groups of users to run common analyses on their own machines over their own datasets with ease. The results of these analyses are synchronized to the cloud and undergo aggregate analyses processes using all contributor data.

Publications

- P. Suresh et al., "Evaluating the Neuroimaging-Genetic Prediction of Symptom Changes in Individuals with ADHD," 2021 43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC), 2021, pp. 1950-1956, doi: 10.1109/EMBC46164.2021.9630229.

Additional Experience

- V.P. of BrainHack ATL: Organized the hackathon and optimized the AWS costs of the event by efficient resource allocation to the teams that participated.