ANVESHRITHAA SUNDARESWARAN

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An undergraduate student pursuing Computer Science Engineering at VIT University, a goal-oriented and quality-focused learner, with a good academic record and immense interest and experience in software development and research on machine learning, deep learning and big data, along with proficient programming skills.

EDUCATION

- **B. Tech in Computer Science & Engineering** *July '17 - Present*
  VIT, Vellore
  9.21/10 CGPA
- **Higher Secondary schooling** *June '15- May '17*
  Suguna PIP school, Coimbatore
  87.2%

TECHNICAL SKILLS

- Programming languages – Python, C, C++, Java, R, MATLAB (basics)
- Machine learning, Neural networks – TensorFlow, Keras, PyTorch, Sklearn
- Big data technologies – Apache Spark (PySpark), Apache Kafka, Hadoop ecosystem
- Data Structures and algorithms
- Full stack development
- Web technologies- HTML, CSS, JavaScript, Node.js, PHP
- Databases – MySQL, MongoDB
- Office tools – MS Excel, MS Office, MS word, MS PowerPoint

RESEARCH EXPERIENCE

- **Promoter Prediction in DNA Sequences of Escherichia coli using Machine Learning Algorithms**
  - IEEE Madras section Student Paper Contest, 2019 - Best Student Paper award
  - International Journal of Scientific & Technology Research, Vol.8, Issue 11
- **Real-Time Vehicle Traffic Analysis using Long Short-Term Memory Networks in Apache Spark**
  - Presented at the IEEE International Conference on Emerging Trends in Information Technology and Engineering, 2020
- **End-to-end Real-Time Traffic Prediction using Ensemble Learning for Deep Neural Networks**
  - International Journal of Intelligent Information Technologies (IJIIT) -Special issue on Intelligent Data Analytics for Interdisciplinary domains, Vol 16, Issue 4.
- **Real-Time Weather Analytics: An End to End Big Data Analytics Service Over Apache Spark with Kafka And Long Short-Term Memory Networks**
  - Under review - International Journal of Cognitive Computing in Engineering

ACHIEVEMENTS

- **Best Student Paper Award**
  - at IEEE Student Paper Contest 2019 conducted by IEEE to showcase the original research contribution and innovation from UG, PG students and research scholars at a national level.
- **Outstanding Performer Award- 2020 Tsinghua University Deep Learning Summer School**
  - Received Outstanding performer award (ranked first in class) based on implementation of various deep learning projects
  - The only student selected from India among 30 international admits from all over the world
- **Raman Research Award**
  - Awarded by my home university for active involvement in research and publications in Scopus indexed journals during undergraduation.
- **Achievers Award**
  - Awarded by home university for achievement at National level technical events
- **Selected for the 2020 CCU Summer Research Intern Scholarship**

INTERNSHIPS/WORK EXPERIENCES

- Data science intern (remote)
  50Hands – Ontario, Canada.
  May, 2020 – Present
  - Working on data planning and collection, ETL and data analysis for providing crowd sourced solutions at scale using data driven models.
  - Working towards building an exclusive analytics website that provides insightful visualizations from analysis of crowdsourced data.
- 2020 CCU Summer Research Internship, Taiwan (cancelled due to COVID-19)
  Deep learning research intern
  National Chung Cheng University, Chiayi, Taiwan
  - Selected with full scholarship for a 12-week summer research internship to work under Prof. Jui-Chiu Chiang on a research project titled "P7-Saliency-driven Tone Mapping for HDR Image Display Using Deep Learning".
- Web developer intern
  Vellore Online Systems (P) Ltd, Vellore, India.
  May 14, 2019 – June 30, 2019
  - Developed a hospital information system for managing information within a hospital network using web technologies

PROJECTS

- Real- time analytics of soil and weather conditions using Machine Learning, IoT and Big data for Agriculture (University funded - working with a team of professors)
- Traffic light mapping and recognition using CNN for Autonomous Vehicles
- Deep multi-modal object recognition (RGB + depth fusion network)
- Affective computing for learning mental health and aesthetics from social media
- Deep Generative model: Generating handwritten digits using Variational Autoencoder
- Information extraction from resumes by natural language processing
- Image restoration using Super Resolution Convolutional Neural Network (SRCNN)
- Credit card fraud detection using Local Outlier Factor and Isolation Forest Algorithm
- Diabetes onset prediction using neural networks with grid search optimization
- End-to-end machine learning pipeline in PySpark integrated with Amazon S3
- Lung nodule detection from CT scan images using segmentation techniques
- E-commerce website using Node.js and MongoDb
- Embedded systems - Hand gesture recognition for video player controlling

EXTRACURRICULAR ACTIVITIES/SKILLS

- Volunteering at 50Hands organization, to build digital products and services to address individual and community needs during the pandemic
- Author of technical blogs - writer at Analytics Vidhya
- Proficiency in technical writing
- Good communication and oratory skills
- Served under the National Service Scheme (NSS)
- Team player