Singamsetti Mohan Sai

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EDUCATION

- **Vellore Institute of Technology** — Vellore, India
  Bachelor of Engineering in Computer Science; CGPA: 8.61/10.0 — *July 2016 – Present*

EXPERIENCE

- **University of Alberta, Computing Science** — Edmonton, Canada
  Visiting Researcher — *Dec 2019 - Present*
  - **Conceptual Expansion as Simultaneous Transfer Learning and Architecture Search**: In this work I am applying Conceptual Expansion to generate Neural architecture for Image Classification task in a transfer learning framework and to build a benchmark for the new creative ML agents with Prof. Mathew Guzdial.

- **Vanderbilt University, Institute for Software Integrated Systems** — Nashville, USA
  Research Intern — *June 2019 - September 2019*
  - **Transient Acoustic Gunshot Classification**: Part of the prestigious VUSE Summer Research Program at **Vanderbilt University**. Worked on Transient Acoustic Signals for Gunshot classification problem using Parallel Convolutional Models in DeepForge Environment with Prof. Akos Ledeczi and Peter Volgyesi.

- **KeyPoint Technologies** — Hyderabad, India
  Machine Learning Intern — *May 2018 - July 2018*
  - **Deep Learning Based Android Applications**: Have Developed a prototype for Digit and Object Recognition models integrating in Android Environement and then connected to Wikipedia API. **+1 more.**

PUBLICATIONS

- **S Mohan Sai**: K. Naresh ; S. RajKumar ; Mohan Sai Ganesh **An Infrared Image Detecting System Model to Monitor Human with Weapon for Controlling Smuggling of Sandalwood Trees**- 2nd International Conference on Inventive Communication and Computational Technologies (ICICCT) - 2018), Coimbatore, India, 2018
- **S Mohan Sai**: Jayakumar Kaliappan; K. Shaily Preetham **Weblog and Retail Industries Analysis using a robust modified Apriori algorithm**- International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-6, April 2019
- **S Mohan Sai**: Sai Karthik Muppa ; K Mona Teja ; P Natrajan **Advanced Image Processing techniques based model for Brain Tumour detection**- 4th International Conference on Computing Communication and Automation (ICCCA - 2018), Noida, India, 2018 **+3 more.**

PROJECTS

- **Behaviour Based Data Dispatcher**: Developed a model that dispatches the data by analyzing the the emotions of the multiple faces that are encountered in the live streaming of the camera and an alerting system.
- **Diabetic Retinopathy Identification Using ResNet50 and ConvNets**: Developed an Android Application for Detection of the Diabetes Retinopathy and has achieved a reliable performance for end users.
- **Visual Question Answering and Image Caption Generating using Deep Learning:**: Developed a system that can answer open-ended questions based on an image with 90 accuracy. Also generates 1-2 lines of Captions.
- **Stock Value Prediction using LSTMs and Sentimental Analysis**: Developed a stock prediction model with the sentimental factors of the reviews from Twitter Data. **+15 more.**

ACHIEVEMENTS

- **1**: Received a Scholarship of 6000 USD for the research fellowship at Vanderbilt University.
- **2**: Consistently awarded a merit scholarship of 2,00,000 INR in VIT University. - **SPECIAL ACHIEVER AWARD.**
- **3**: Research Award Recipient of 4000 CAD for receiving a fellowship at University of Alberta.
- **4**: Published an Android App in Playstore (**EASY TIC TAC TOE**) This application has a rating of 4.8/5.0 .

PROGRAMMING SKILLS

- **Languages**: Python, C/C++, Java, SQL, JavaScript **Frameworks**: Keras, Tensorflow, PyTorch, Pandas
- **Tools**: Android Studio, R Studio, MATLAB **Environments**:Open AI Gym, Google Colab