Apoorva Gondimalla

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Education

Birla Institute of Technology and Science Pilani, Goa *Aug 2015 - June 2020*
Bachelor of Engineering(Hons.) Computer Science CGPA: 8.48/10
Master of Science(Hones.) Chemistry

Sri Chaitanya Junior College *July 2013 - June 2015*
Class XII - Intermediate Education (Higher Secondary) Percentage: 97.3

KKR's Gowtham Concept School *July 2012 - June 2013*
Class X - Secondary School Grade: 9.7/10

Experience

Reliance Jio AI-CoE, Hyderabad | Vision Team *Aug'20-Present*
Software Engineer

- Work on end to end research, design and development and production of large scale AI solutions for various business use cases.
- Develop deep learning models for document processing to automate digitalization using optical character recognition and document relationship understanding.
- Research on generalizing the existing model to process variety of document types.

Samsung R&D Institute, Bangalore *Jan-Jun'20*
Research Associate

- Researched on deep learning models for intelligent video summarization by action recognition from videos. Modified an existing action recognition model to reduce computation cost, latency and model size for mobile deployment.
- Analyzed and proposed optimal categorization of classes for video summarization
- Submitted a research paper on the video summarization approach to Samsung Best Paper Award, 2020.

International Institute of Information Technology, Hyderabad | CVIT lab *July-Dec'19*
Research Assistant

- Researched on video based action recognition models with an aim to automate surveillance of manufacturing process in a Japanese automobile company.
- Attained action classification with very small and skewed dataset by experimentation and modelling of data augmentation techniques and deep learning models.
- Submitted a working model with about 80% accuracy to the Japanese company.

International Institute of Information Technology, Hyderabad | Cognitive Science lab *Jun-Jul'19*
Summer Intern

- Designed & developed a unity game with kinect integration to hasten physical therapy for rehabilitation of Stroke patients.
- Demonstrated the working model at a rehabilitation center.

Bharat Dynamics Limited, Kanchan Bagh *Jun-Jul'18*
Summer Intern

- Designed and developed a web application from scratch for visitor gate-pass system.
- Worked on integration of data from multiple branches into a single database.

Projects

Nutrient deficiency detection from leaf image using convolution neural networks   Jan-Apr'19
- Worked on identification of deficient nutrient in plants based on the colour patterns on leaf image using convolution neural networks.
- Developed an android application for user to upload requests with data storage in firebase

Emotional Storyteller — Context-aware text-to-speech conversion   Oct-Dec'18
- Using Emotion prediction models from text, developed a context aware emotion recognition model.
- Studied and proposed effective variations of basic speech parameters in Text-to-Speech synthesizer,Mary TTS to instill an emotion.
- Developed a prototype for emotional speech generation based on the context and emotion intensity of a given text.

Duplicate content detection   Nov'18
- Detection of suspicious documents in a corpus based on given source documents using near-duplicate content detection techniques

Study of efficient design model for solar power technology   Jan-Apr'18
- Researched and summarized relationship of design structure of solar cookers with variation in environment.
- Deduced effect of changes in climatic and machine parameters on efficiency of compound parabolic collector by analysing performance data of a working model at University of Pune, India.

Technical Skills

Languages: Python, C++, Java, SQL, Basics of C#, HTML, CSS
Modeling: Arduino, RaspberryPi, NodeMCU
Developer Tools: Eclipse, Unity, Android Studio, Git, Docker, VS Code, Net Beans
Frameworks: FastAPI, Seldon, JUnit
Libraries: Pandas, NumPy, PyTorch, Matplotlib

Scholarships

- INSPIRE-SHE Scholarship holder, Awarded by Department of Science and Technology(DST), Government of India to top one percentile merit students.

- Received State Bank of India meritorious student scholarship for students with merit performance in Elite institutions of India.

- Invited to Google Tech Intern Connect-2019 at Hyderabad, India.

Volunteering and Extra-Curricular

- As a core member of BITS Alumni Affairs Division, I Co-supervised the first 'Reunion' event conducted by BITS Goa for early alumni batches.

- Member of Student Faculty Council, Department of Chemistry, BITS Goa.

- Volunteer at Environmental Protection and Awareness Club, BITS Goa. Engaged in a project to make quality manure with effective combinations of bio waste for growing specific plant types.

- Volunteered at Department of Surveillance and Registration, BITS Goa.

- Grade 6 (practical and theory) certification in Piano from Trinity College London.

- Proficient in Flute.