Anjali Bhavan

anjalibhavan98@gmail.com | +91-9654647823 | Website | Github

Education

Delhi Technological University — New Delhi, India
Bachelor of Technology in Mathematics & Computing; GPA: 7.53/10 — *Aug 2016 - June 2020*

Experience

Digital Systems Architecture and Design (DSAD) — DTU, Delhi
Machine Learning Research Head — *March 2018 - September 2018*

- Hardware implementation of deep learning-based speech recognition system: Worked on creating language and acoustic models for speech recognition and their implementation on hardware.

MIDAS@IIIT-D — IIIT, Delhi
Undergraduate Researcher — *June 2018 - Present*

- Worked on numerous projects in the fields of applied machine learning, natural language processing and knowledge graphs. Published three papers and a book chapter.

Coding Ninjas — Delhi
Teaching Assistant — *June 2018 - August 2018*

- Assisted in the Machine Learning online course at Coding Ninjas by creating assignments and lecture notes, and resolving the queries presented by students undertaking the course.

MT-NLP Lab, Language Technologies Research Center — IIIT, Hyderabad
Research Intern — *May 2019 - July 2019*

- Performed comprehensive studies and experiments on domain relevant term extraction using various statistical and graph-based approaches.

Projects and Publications

- **Publication**: Bhavan, Anjali, Pankaj Chauhan, and Rajiv Ratn Shah. "Bagged support vector machines for emotion recognition from speech." Knowledge-Based Systems (2019): 104886.
- **Publication**: Bhavan, Anjali et al. "*Investigating Political Herd Mentality: A Community Graph-based Approach.*" In Proceedings of ACL 2019 Student Research Workshop.
- **Publication**: Bhavan, Anjali et al. "*Analysis of Parliamentary Debate Transcripts Using Community-Based Graphical Approaches.*" In Proceedings of AAAI 2020 Student Abstract.
- **Publication**: Bhavan, Anjali, and Swati Aggarwal. "*Stacked Generalization with Wrapper-Based Feature Selection for Human Activity Recognition.*" 2018 IEEE Symposium Series on Computational Intelligence (SSCI). IEEE, 2018.
- **Movie Recommender System**: Flask app to generate movie recommendations using three algorithms: user-user and item-item collaborative filtering,and low-rank matrix factorization. Deployed on Heroku.
- **Apertium**: Contributed to Apertium, an open-source machine translation toolkit by working on the Tamil morphotactic dictionary and constraint grammar disambiguation rules.
- **PhilDailyBot**: Telegram bot to retrieve articles from various websites like Brain Pickings, Arts and Letters Daily and others. Deployed on Heroku.
- **Stock-Info-Provider**: Flask app to generate and display plots, statistics etc. of various equities in several exchanges, and currency rates and analysis of physical and cryptocurrencies. Used the Alpha Vantage API for retrieval and generating analysis. Deployed on Heroku.

Additional Experience & Achievements

- **ML Instructor at Society of Robotics, DTU**: Taught weekly classes on machine learning theory and application, conducting workshops, data science hackathons etc.
- **Content Head and Volunteer, ENACTUS DTU**: ENACTUS is an international non-profit organization that aims to make underprivileged communities self-sufficient and help them generate revenue. Volunteered for field visits, surveys etc., and proposed plans for new projects, expansions and so on. Promoted to head of content and marketing; in charge of social media handles and other events like presentations, meetings etc.
- **Second Prize at BVP-IEEE WiEHack 2018**: Bagged second position in a 24 hour hackathon held at BVP, Delhi - was part of the team that built a simple reading device for visually impaired people using an Arduino system and various Google APIs.