Anjali Bhavan

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Education

Delhi Technological University — New Delhi, India
Bachelor of Technology in Mathematics & Computing; GPA: 7.68/10 — *Aug 2016 - Present*

Skills

- **Languages**: Python, C++, Node.JS, CSS, HTML, PHP, C, JavaScript **Technologies**: GitHub, MATLAB, IBM-SPSS, MySQL, MongoDB
- **Libraries**: PyTorch, Keras, Scikit-Learn, Numpy, Pandas, Tensorflow, Jupyter, Flask

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 (a Xilinx FPGA system). DSAD is a research group headed by Dr. Neeta Pandey, Professor, Department of Electronics and Communication at Delhi Technological University.

Netaji Subhash University of Technology — NSUT, Delhi
Research Intern — *March 2018 - Aug 2018*

- Human Activity Recognition: Worked on stacked generalization with feature selection for human activity recognition.
- A review of ensemble learning methods: Worked on a comprehensive literature review of ensemble learning research, types of ensembles and their various applications in problems spanning several areas.

MIDAS@IIIT-D — IIIT, Delhi
Research Intern — *June 2018 - Present*

- Worked on ensemble methods for speaker-independent speech emotion recognition. Paper submitted to Knowledge-Based Systems journal.
- Performed experiments for analyzing deep learning approaches for sentiment analysis on audio. Book chapter currently under review.

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

- Assisted in Cognizance, the online Machine Learning course offered by Coding Ninjas by solving queries and problems of students, and helped create quizzes, coursework, projects, assignments etc. for the course.

Projects and Publications

- **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.
- **Publication**: "*Bagged Support Vector Machines for Emotion Recognition from Speech*" (Under review in Knowledge-Based Systems, Elsevier)
- **Movie Recommender System**: Developed a Flask app to generate movie recommendations using three algorithms:user-user and item-item collaborative filtering,and low-rank matrix factorization.Scraped data from IMDB and stored on MongoDB databases. Deployed on Heroku.
- **PhilDailyBot**: Telegram bot to retrieve articles on life, love, philosophy etc. 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.
- **ArtiVision**: A device for blind people to read text not in Braille. Was part of the runner-up team at the BVP-IEEE WiEHack hackathon.

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.