Anjali Bhavan

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Education

University of Washington — Seattle, USA
Master of Science in Computational Linguistics — *Sept 2020 - Present*

Delhi Technological University — New Delhi, India
Bachelor of Technology in Mathematics & Computing — *Aug 2016 - June 2020*

Experience

Paytm — Noida, Delhi-NCR
Software Engineer — *July 2020 - Present*

- Part of the Payment Gateway team. Involved in pre-production sanity, solving critical bugs and canary deployment.

Spoken Language Systems Lab — Saarland University, Saarbrucken
Research Intern — *June 2020 - August 2020*

- Worked on hate speech detection using world-knowledge and contextual information. Used transfer learning via BERT to analyze tweets on the CAA/NRC protests in India.

MIDAS@IIIT-D — IIIT, Delhi
Undergraduate Researcher — *June 2018 - December 2019*

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

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.

Professional Service

- **AACL-IJCNLP Student Research Workshop 2020**: Served as review committee member and evaluated paper submissions.
- **ACL Student Research Workshop 2020**: Served as review committee member and evaluated paper submissions.

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. Promoted to head of content and marketing; in charge of social media handles and other events.
- **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.