ANJALI BHAVAN

@ anjalibhavan98@gmail.com ✉ Flat B8/4, Sector-4, Rohini ⚲ New Delhi, India in https://www.linkedin.com/in/anjali-bhavan/

EXPERIENCE

Machine Learning Research Head
DSAD - Digital Systems Architecture and Design group

📅 March - September 2018 ⚲ DTU, Delhi

- Hardware implementation of deep learning-based speech recognition system: Led a team of five members for 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.

Research Intern
Netaji Subhash Institute of Technology

📅 March - September 2018 ⚲ NSIT, Delhi

- Human Activity Recognition: Worked on stacked generalization with feature selection for human activity recognition. Accepted for presentation at IEEE-SSCI conference in November 2018.
- A review of ensemble methods: Ensemble learning is one of the most exciting and promising avenues of machine learning. Worked on a comprehensive literature review of ensemble learning research, types of ensembles and their various applications in problems spanning several areas.

Research Intern
MIDAS - Multimodal Digital Analysis of Systems group

📅 June 2018 - Present ⚲ IIIT, Delhi

- Worked on speaker-independent speech emotion recognition under Dr. Rajiv Ratn Shah, Assistant Professor, Department of Computer Science and Engineering at IIIT-Delhi. Submitted paper to Elsevier KBS journal.

Teaching Assistant
Coding Ninjas

📅 June - August 2018 ⚲ Delhi

- 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

- *Stacked Generalization with Wrapper-Based Feature Selection for Human Activity Recognition*
  (Accepted for presentation at IEEE Symposium Series on Computational Intelligence, 2018)
- *Methods and Applications of Ensemble Learning: A Review*
  (Technical Report)
- *Bagging with Strong Learners for Speaker-Independent Speech Emotion Recognition*
  (Submitted to Elsevier KBS journal)
- *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.
- *Movie Recommender App*
  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: here.

EDUCATION

B.Tech. in Mathematics and Computing
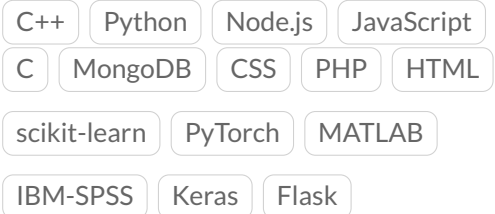**Delhi Technological University**

📅 August 2016 - May 2020

Class 12th CBSE
Ryan International School

📅 April 2008 – April 2016

SKILLS

C++ Python Node.js JavaScript C MongoDB CSS PHP HTML scikit-learn PyTorch MATLAB IBM-SPSS Keras Flask

EXTRA-CURRICULAR ACTIVITIES

Head, Digital Marketing
Aahvaan, the sports fest of DTU

Head, Digital Marketing
Yuvaan, the literary fest of DTU

Head, Content
ENACTUS, DTU

Columnist
DTU Times, DTU

Writer
The Wordsmiths

Writer
High on Films

LANGUAGES

English ●●●●●
Hindi ●●●●○
Tamil ●●●●○

COMMUNITY SERVICE

Machine Learning SIG Instructor and Head
Society of Robotics- DTU

📅 August 2018 - Present   📍 DTU, Delhi

- Teaching weekly classes on machine learning theory and application, conducting workshops, data science hackathons etc.

Organizing Committee Member
PyLadies Delhi Chapter

📅 July 2018 - Present   📍 Delhi

- Responsible for social media handling, organizing meetups, talks etc. and educating the community on the value and importance of representation in tech. PyLadies is an organization that aims to encourage women to code in Python and contribute to open source.

Volunteer and Content Head
ENACTUS, DTU

📅 August 2016 - January 2018   📍 Delhi

- ENACTUS (Entrepreneurship, Action and Us) 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.

ACHIEVEMENTS

Second Prize
BVPIEEE-WiEHack 2018

📍 BVP, Delhi

- 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 a Arduino system and various Google APIs.

Winner, Healthcare Category
Times App Search

📍 Delhi

- Presented an app idea to diagnose ovarian cancer with >95% accuracy in pre-menopausal women using the Risk of Malignancy Index calculation.

HOBBIES

Reading, Writing, Watching films