

Anuradha Pandey

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Languages: Python, R, C, C++, Java

Social Profiles: [LinkedIn](#) [GitHub](#) [Kaggle](#)

WORK EXPERIENCE

8K Miles Software Services Ltd | May'20 - December '20

8KMiles is an AWS and Azure Cloud Partner providing Big data, data analytics, and UI/UX mobility services

- o Role - Machine Learning Intern
- o Project - Building a chatbot to solve queries
- o Brief - Designed a chatbot to ease the work of both team and user and also to solve the queries related to application status, interview schedule and vacancies in jobs, based on their skills.

Research Assistance to Department Professor | August'20 - present

- o Role - Machine Learning Research Intern
- o Project - Conversational agents for mental health
- o Brief - Working on predicting mental health disorders in individuals using NLP and transfer learning.

ISB | Dec'20 - Jan'21

- o Role - Machine Learning Research Intern
- o Project - NPA(Non performing asset) Prediction
- o Brief - Working on predicting NPA using previous year assets data using Linear Regression and feature selection, which involved extraction of Financial assets from company reports, on which, I built an ML model to predict long-term and short-term decisions for particular assets.

EDUCATION

- Birla Institute of Technology and Science, Pilani | Hyderabad | 2019-2023
B.E. Computer Science | Current CGPA: 9.35 /10 (IR 10)
- PACE Junior Science College | Mumbai | 2017-2019
Class 12 | Grade - 91.3%
- Atomic Energy Central School | Mumbai | 2007-2017
Class 12 | Grade - 99% (School Topper)

EXTRA-CURRICULAR

- IEEE | Treasurer | Sept 2019 - present
 - Working on following publications:
 - 1) Using Reinforcement Learning for building navigation capabilities of Hexapod, which includes perception and motion planning, achieved using the OpenAI gym environment.
 - 2) Converting ASL to Speech, which uses Machine Learning and Computer Vision for helping people with hearing and speaking disabilities.
- CRUX (The programming and computing club) | Member | May 2020- present
 - Working on a Batchsnap sorter which identifies unique faces from a corpus of photos and allows a person to retrieve all images containing their face. Clustering of images is done on the server side by using facial feature embeddings.
 - Working on building a transcriber using CNN LSTMs that will transcribe the recorded lectures into text.
- ARC(Automation and Robotics club) | Member | May 2020- present
 - Made simulations of different bots using different softwares such as Tinkercad, SolidWorks, LTSpice.
 - Working on Modern Robotics and different spatial representations of robotic arms.
- ACM | Treasurer | December 2020 - present
 - As one of the founding members of the ACM(Association of Computer Science Machinery) student chapter of my college, I aim to improve the Computer Science culture on campus by increasing awareness and participation.

PROJECTS

- Used OpenCV to detect OCR on classified objects using YOLO and Haar Cascade models with 90% accuracy.
- Built a machine translation model, using deep neural layers, which uses an encoder-decoder model to convert Hindi corpus to English.

- Created statistical models - XGBoost, PCA and SVM to identify 5 top clusters of pick up and drop location from 75,000 data entries and identify 10,000 new potential customers.
- Performed sentiment analysis on Reddit dataset using ML algorithms - Naive Bayes, Logistic Regression and more complex Deep Neural Network models, containing LSTMs and GRUs layers, to classify the comments into three classes.
- Built a Part of Speech(POS) tagger, which is used to label each word in a sentence with its appropriate part of speech, using Viterbi algorithm.

COURSES

- Data Structures and Algorithms (3rd Semester)
- Object Oriented Programming (2nd Semester)
- Deep Learning specialisation (deeplearning.ai)
- Natural Language Processing specialisation (deeplearning.ai)
- CS50's Introduction to AI with Python (edX)

ACHIEVEMENTS

- Kaggle competitions:
 - 1) APTOS 2019 Blindness detection challenge: 75th percentile globally for detection of diabetic retinopathy into different classes based on severity of disease.
 - 2) Mechanisms of Action(MoA) prediction: A classifier for drugs had to be improved by analyzing its properties over samples.
- Qualified for semi-final round of Flipkart GRiD 2.0 Software Development Challenge, a national level hackathon conducted from June-September, 2020.
- Actively contributing to FossAsia (Asia's Open Technology Organization) and Apertium (open source Machine Translation).
- Made 5+ contributions to Hacktoberfest, a virtual festival event to celebrate open source contributions presented by Digital Ocean. (October 2020)
- Times of India (TOI) Student of the Year (nationally selected) for 2 consecutive years. (2015-16 & 2016-17)
- Certificate of Merit holder for being in top 0.1 percentile nationally in 10th and 12th board exams.
- Maharashtra State Rank 25 in National Science Olympiad. (2015)