ADITYA AGARWAL

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EDUCATION

B. Tech in Computer Science and Engineering
Alliance University   CGPA- (2.6/4.00)   **Jul 2021**
12th Grade, Milton Public School, Agra   61.8%   **May 2017**

EXPERIENCE

***Back-end Intern*, Quichub Innovations LLP, Bangalore**   **Sep 2020 – Nov 2020**
Quichub is a technology company offering consumer health solutions.

- Developed 'MyResQR' - an emergency response platform to use if a certain individual met an accident.
- Programmed an SOS button that sends alerts to the user's emergency contacts; Built services using Python in Django Web Framework.
- Implemented IVR call flows using Exotel API for automated calling and text messaging to automatically connect the victim or the respondent to the emergency contact.

***Research Intern*, National Institute of Technology, Rourkela**   **Jun 2019- Jul 2019**
NIT Rourkela is a University of National Importance for technical education in India.

- Learned and worked upon the recommendation algorithms in Python for collaborative filtering over Netflix Movie Database.
- Performed Collaborative filtering algorithm on movie dataset for learning and prediction for user recommendation.

TECHNICAL SKILLS

Operating Systems: Windows, Ubuntu (GUI and CLI), macOS
Languages: Python, Core Java
Database and Client/Server Technologies: MySQL, SQLite, Amazon RDS
Web Applications: HTML5, JavaScript, CSS, Bootstrap
Others: TensorFlow, NLP, Regression Analysis, Convolutions, AWS (EC2, EBS), Docker, Flask web framework, Django

RELEVANT PROJECTS

Fantastic Computing Machine (major project)   **Dec 2020 - Present**

- Teamed with 2 people to develop a SaaS Platform to deploy Machine Learning Pre-Trained Models.
- Provide users with a sharable link for other users to interact with the model(project).
- Implemented version control for the users to manage and maintain the previous models.
- Dockerize the entire platform for easy deployment.
- Designed a full user authentication system using Google O-Auth service and stored the information in a session.
- Designed a SQL database to store user information and the project associated with each user.

Portfolio Website   **Sep 2020**

- Designed a portfolio using Flask Framework and HTML and CSS.
- Created an easy contact form using *slack messaging API*.
- Deployed the website at Heroku at www.adityaagarwal.me.

Human and Horses Binary Classifier   **Jul 2020**

- Created an image classifier using 3-layer Deep CNN, along with 3 pairs of Convolution and Pooling layers which can classify whether a given image is a horse or a human.
- Achieved 98% accuracy on the training set and 88% on the validation set.

Fashion Object Classifier: MNIST Data   **Jul 2020**

- Fashioned an image Classifier using 2-layer Deep CNN which can classify a set of images into 10 different fashion items (such as shirt, trousers, boots etc.)
- Achieved 94% accuracy on the classification of the given unknown dataset.

Linear Regression Analysis on Diabetes Dataset   **Apr 2020**

- Obtained ten baseline variables such as age, sex, body mass index, etc. for 442 diabetes patients to do a quantitative measure of progression of diabetes one year after baseline.
- Trained and predicted the presence of diabetes via a linear regression model.
- Successfully predicted the disease progression, one year after baseline.

Sentiment Analysis using Scikit-Learn   **Apr 2020**

- Deployed a simple logistic regression estimator from scikit-learn for sentiment analysis of IMDB Movie Reviews and document classification.
- Classified the Movie review as a positive or a negative, using Bayes Theorem and Laplacian Smoothing.

Movie Recommender   **Mar 2020**
- Formulated a movie recommender using Tableau train Movie-Lens Dataset for the user-item recommendation.
- Enabled recommender classification of the movies based on genre and year and suggest the movies to the user.

Assistant Bot   **Apr 2019**
- Coded a CLI based Assistant bot using Python which enables to find the weather, crack jokes, list out fun facts etc.
- Used Speech synthesizer and speech recognition to converse with the bot.
- Enabled partial control of windows computer by modifying and running DOS batch files.

COURSEWORK TAKEN: Scripting Languages, Data Mining and Data Warehousing, Database Management, Data Structures and Algorithms, Engineering Mathematics, Big Data Analysis

TECHNICAL CERTIFICATIONS/PUBLICATIONS/PAPERS:
- Contributed a book chapter entitled "Text Mining Approach Based on TF-IDF and SVM for Text Classification" for the book **Latest Innovation for Future Education** (LIFE-2021) published by ESN Publications- **Jan 2021- ISBN:** 978-81-947019-0-3.
- Introduction to TensorFlow for AI, ML, and Deep Learning- Coursera (deeplearning.ai), **Jun 2020**
- Structuring Machine Learning Projects- Coursera (deeplearning.ai), **May 2020**
- Python Data Structures- Coursera (deeplearning.ai), **May 2020**
- Neural Networks and Deep Learning- Coursera (deeplearning.ai), **Apr 2020**
- Machine Learning for All- Coursera (University of London), **Apr 2020**
- Presented a descriptive analysis on the Topic "Lung Cancer Detection using Machine Learning" at Present Around the World (PATW) competition hosted by The IET, at State Level (Karnataka Level)- **Feb 2020**
- Software-Defined Storage Concepts, VMWare, **Jan 2020**
- Presented the project," Light Following Solar Panel Assist " at interdisciplinary University Level Techno Fair 2018 and secured the 2nd position among 45 participants for Presenting an Innovative Idea- **Dec 2018**

ACTIVITIES AND AWARDS:
- Attended the Workshop APIs for Beginners organised by IEEE Computer's Society, Bangalore, **Jan 2021**
- Attended the Workshop Fundamentals of Image Processing using Python organised by CVM University, Gujarat**, May 2020**
- IEEE Student Member, **Aug 2019 - Jan 2020.**
- Participated and secured the First position in the "High Endurance, Glider Making" and "Hit the Target, Hydro Rocketry" competition in Astro Space Camp organized by SSERD- **Nov 2017.**