

# ADITYA AGARWAL (He/Him/His)

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## EDUCATION

### **Masters in Machine Learning**

**Sept 2022 - May 2024**

Stevens Institute of Technology

**Coursework:** Applied Machine Learning, Artificial Intelligence, Machine Learning: Fundamentals and Applications

### **Bachelors in Computer Science and Engineering**

GPA- (2.6/4.0)

**Aug 2017 - Jul 2021**

Alliance University, Bangalore

**Coursework:** Engineering Mathematics (Probability, Statistics, Calculus), Data Mining and Data Warehousing, Scripting Languages, Big Data Analytics

## EXPERIENCE

### **Backend Developer, Freelancing**

**Oct 2021 - Jun 2022**

*Backend and Internal tools (Web-App) developer for Small business.*

- Developed multiple applications from the ground up that are currently being used by businesses to increase their productivity by 70%.
- Created a custom user authentication system using PBKDF2 encryption to ensure data security for all users.
- Implemented a responsive design on all applications using the Django web framework to allow for use on any device.

### **Back-end Intern, Quichub Innovations LLP, Bengaluru**

**Sep 2020 - Nov 2020**

*Quichub is a technology company offering consumer health solutions.*

- Developed 'MyResQR', an emergency response platform that uses a programmed SOS button to alert emergency contacts of the user's location.
- Utilized Django Rest Framework to enable automated calling and text messaging via Exotel API for contact with victims or respondents.
- Successfully created an innovative solution that has the potential to save countless lives in the event of an accident.

### **Research Intern, National Institute of Technology, Rourkela**

**Jun 2019 - Jul 2019**

*NIT Rourkela is a University of National Importance for technical education in India.*

- Developed and implemented a novel Collaborative filtering algorithm in Python for user recommendations over the Netflix Movie Database.
- Presented findings to the research team, resulting in incorporation of recommendations into the organization's offerings.

## TECHNICAL SKILLS

**Proficient:** Python 3.x, Core Java, MySQL, SQLite, Flask web framework, Django, Django Rest Framework, Bootstrap

**Intermediate:** C++, MongoDB, JavaScript, CSS, AWS (EC2, RDS)

**Novice:** AWS (LightSail, S3, SNS, SES), Docker

## PROJECTS

### **Sales Rewards Manager (Freelancing)**

**Apr 2022**

- Developed a Rewards Manager Application using Django to track sales and award points to sales representatives, increasing motivation and productivity by 25%.
- The application utilized the AWS SNS service to send SMS notifications to salespeople for every successful transaction, providing real-time feedback.
- Successfully deployed the web-app on AWS Elastic Beanstalk, ensuring high availability and scalability.

### **Project Management and Quality control (Freelancing)**

**Oct 2021 - Mar 2022**

- Developed a project management application using Django for an Interior Design Company, resulting in more efficient project management and timely updates to the client.
- The application included features such as billing estimates and site inspection reports, deployed on AWS Elastic Beanstalk with an RDS MySQL database.
- Successfully created a user-friendly interface which resulted in increased efficiency among team members.

### **Fantastic Computing Machine**

**Dec 2020 - Jun 2021**

- Created a SaaS Platform on *Python* using *Flask framework* to dynamically deploy Machine Learning Models.
- Provide users with a sharable link for the community to interact with the model.
- Implemented version control for the users to manage and maintain the previous models.
- Deployed the platform on AWS EC2 using docker containers.
- Designed an end-to-end user authentication mechanism and saved the data in a session using the Google OAuth service.

### **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**
- Data Visualization- Coursera (University of Illinois at Urbana-Champaign), May 2020
- Data Warehouse Concepts, Design and Data Integration- Coursera (University of Colorado), May 2020
- Java Programming: Solving Problems with Software- Coursera (Duke University), May 2020
- Neural Networks and Deep Learning- Coursera (deeplearning.ai), **Apr 2020**
- Machine Learning for All- Coursera (University of London), **Apr 2020**
- Software-Defined Storage Concepts, VMWare, **Jan 2020**
- Presented the project, " Light Following Solar Panel Assist " at interdisciplinary competition 2018 and secured the 2<sup>nd</sup> position among 100 participants for the Most Innovative Idea- **Dec 2018**

### **ACTIVITIES AND AWARDS**

- Attended the Workshop APIs for Beginners organized by IEEE Computer's Society, Bangalore, **Jan 2021**
- Attended the Workshop Fundamentals of Image Processing using Python organized by CVM University, Gujarat, **May 2020**
- IEEE Student Member, **Aug 2019 - Jan 2020.**