

# ADITYA AGARWAL (He/Him/His)

Jersey City, NJ | +1 (929) 244-9603 | [aagarw14@stevens.edu](mailto:aagarw14@stevens.edu) | [www.adityaagarwal.me](http://www.adityaagarwal.me)

**LinkedIn:** [@adityaagarwal1999](#)

**GitHub:** [@adiagarwalrock](#)

## EDUCATION

### **Masters in Machine Learning**

*Stevens Institute of Technology, NJ*

GPA-(3.5/4.0)

**Sept 2022 - May 2024**

Coursework: Natural Language Processing, Deep Learning, Artificial Intelligence, Text Mining

### **Bachelor's in Computer Science and Engineering**

*Alliance University, India*

**Aug 2017 - Jul 2021**

Coursework: DBMS, Scripting Languages, Data Mining and Data Warehousing, Data Structures

## EXPERIENCE

### **Software Developer Intern, MIMIO.ai, San Francisco**

**May 2023 - Aug 2023**

- Experimented with vector databases to ingest data from various sources.
- Created data Retrieval Engine that uses decay-function to retrieve data in reverse chronological order w/ high embedding.
- Integrating Twitter data scraping and indexing for tone mapping and linguistic analysis for real-life responses from LLM.

### **Full-Stack Developer, SA Consultant, Bangalore**

**Oct 2021 - Jun 2022**

- Developed multiple web applications to increase productivity
- Designed a custom user authentication system using PBKDF2 encryption to ensure data security for all users
- Implemented a responsive design on all applications using Django web framework to allow for use on any device

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

**Jun 2019 - Jul 2019**

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

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, JavaScript

**Databases:** MySQL, MongoDB, Neo4j

**Frameworks:** Django, Django Rest Framework, Flask, Bootstrap,

**Technologies:** Git, AWS, Docker

TensorFlow, NLTK, Transformers

*Team player possessing ability to work in a fast-paced environment and a constant learner*

## PROJECTS

### **Toxic Spam Detection**

**Mar 2023 - Apr 2023**

- Developed toxic span detection system for online discussions, aiding in moderation and promoting healthy conversations
- Led project focusing on semi-automated moderation, highlighting toxic spans within lengthy comments for better attribution
- Developed an innovative solution for extracting toxic, utilizing BARD Transformer models and CRF Models

### **critiQs – Movie/Show Review Platform**

**Feb 2023 – May 2023**

- Created a user-friendly web application designed for cinephiles to share reviews and discover new movies/shows.
- Implemented a recommendation system that suggests movies based on user preferences.
- Integrated a comprehensive movie database, providing detailed descriptions for each movie/show.
- Enabled users to post reviews with a rating system, allowing them to share their thoughts and opinions on movies and shows.

### **Insight - Project Management Platform**

**Oct 2021 - Jun 2022**

- Led the development of a Django-based project management web application aimed at enhancing efficiency and facilitating client updates.
- Implemented features such as billing estimates and site inspection reports, ensuring comprehensive project monitoring and documentation.
- Deployed the application on Heroku and utilized RDS for seamless data management and accessibility.
- Designed a user-friendly interface with a responsive UI, offering an intuitive and smooth user experience.

### **Fantastic Computing Machine**

**Dec 2020 - Jun 2021**

- Built a SaaS Platform on *Flask framework* to dynamically deploy Machine Learning Models
- Provide users with a sharable link for community to interact with model
- Deployed the platform on AWS EC2 through docker containers
- Designed an end-to-end user authentication mechanism via Google OAuth service

## CERTIFICATIONS and PUBLICATIONS

- Neural Networks and Deep Learning- Coursera (deeplearning.ai), **Apr 2020**
- Data Visualization- Coursera (University of Illinois at Urbana-Champaign), **May 2020**
- 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 2021** published by ESN Publications, **Jan 2021- ISBN: 978-81-947019-0-3**