

## Vinit Anishkumar Masrani

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### EDUCATION

#### Virginia Tech, Blacksburg - Virginia

Masters in Computer Science

August 2021 - May 2023

GPA: 3.46

#### University of Mumbai, Mumbai - Maharashtra

Bachelor of Engineering in Computer Engineering

August 2016 – October 2020

GPA: 3.62

### PROFESSIONAL EXPERIENCE

#### Fayble Inc. - California, Remote

Software Engineer and Data Analytics Intern

May 2022 - August 2022

- Developed a script that automates the generation of game data using Python to eliminate the need for manual data entry.
- Stored and Retrieved Fayble game data using Kafka pipeline enabling real-time updates significantly reducing the time by about 25%.
- Built a Web page to visualize the game data using Django as Backend Framework to increase the user readability from 3:1 to 7:1.

#### Xoriant Solutions Pvt. Ltd. - Mumbai, India

Associate Software Engineer

November 2020 - May 2021

- Worked in a Morgan Stanley trading project as a Full Stack developer with a particular focus on Backend development.
- Developed a system to automate trade reports generation and presentation using technologies such as Spring Boot, Maven, Jenkins, Node.js, React.js, Databases to successfully overcome the manual task of generating daily trade reports saving time and efforts and resulting in eliminating the potential for human errors, allowing the team to focus on more strategic tasks.
- Devised a solution to transition from the traditional Shell commands approach by transferring it to Java and integrating it with the automated report generation system to efficiently access all information in minimal steps simplifying the learning curve associated with complex Shell commands.

#### Board Infinity – Mumbai

Chatbot Developer Intern

July 2019 - April 2020

- Created an AI Powered Multilingual Career Guidance Chatbot using RASA to enhance the bot's conversational performance, making it more realistic and engaging.
- Integrated a robust AI / NLP tool to automatically identify the user domain using Python and pre-generated tagged resumes Database to significantly enhance user experience.
- Designed Chatbot to aid the user with all the comprehensive resources/information through the bot using Web Scraping, RESTful Services APIs, SQL Database to reduce user effort and enhance user engagement, resulting in an impressive increase of over 35%.

#### Innolearn Solutions Pvt. Ltd. - Mumbai, India

Django Web Application Developer Intern

November 2018 - June 2019

- Conceptualized and Developed BSEGNITE to facilitate the users in finding accurate announcements using Scrapy, Django, SQL Database following SDLC principles in a Linux system to reduce process to just a few clicks resulting in reduction of time required to access relevant announcements by 40% making the process faster, more efficient, and user-friendly.
- Organized the website to categorize announcements using Machine Learning Algorithms to successfully achieve an accuracy of 98%.
- Implemented a feature that enhances users experience to conveniently access their preferred announcements by utilizing user to create account having customizable preferences to decrease the time of the user to avoid the categories/companies they are not interested in and focusing on the information that matters most to them adding a layer of personalization while using BSEGNITE.

### PROJECTS

#### Healthy5

December 2022

- Developed a Fitness Monitoring Web Application using Vue.js and AWS (Cognito, Lambda, DynamoDB and S3) following Agile methodology and employing SDLC principles and by providing feature of pseudo-social media platform which has attracted a larger user base and motivated them to achieve their fitness goals.
- Designed the Web Application to foster a sense of healthy competition among users by including 10+ social media capabilities such as upvotes, following, leaderboards, etc. yielding about 25% increase in user dedication compared to traditional fitness applications.
- Developed the feature to provide users with incentives for using Healthy5 through point-based like the game rewards by engaging users in various activities and to redeem Healthy5 goodies resulting in motivating the users to maintain their fitness journey.

### Help for Visually Impaired People

June 2021

- Developed a Web App and Mobile App to assist Visually Impaired People using Django, Flutter, Google Cloud Vision API, Computer Vision, Deep Learning, Natural Language Processing resulting in empowering them to gain independence and navigate their surroundings more effectively.
- Aided the Visually Impaired people to overcome their disability by enabling them to perceive their surroundings through audio output using Google Text to Speech with an impressive overall accuracy rate of approximately 93%.

### Handymen

September 2020

- Developed a Web App and Mobile App aimed at connecting handymen with individuals in need of their services using Django and Java adhering to SDLC principles resulting in effectively addressing a significant problem of unemployment in India.
- Crafted the App for both handymen and users to prioritize safe communication by developing features such as chatbot using Google Dialogflow, user reviews about handymen, verification system for handymen resulting in enhancing safety and authentication, promoting secure interactions within the platform.
- Designed a trust-building feature to address concerns regarding the credibility of handymen by display the certification of handymen's expertise and professionalism to effectively foster a greater sense of confidence and reliability among users.
- Facilitated appointment scheduling for Handymen by integrating their schedule using Google Calendar for significantly enhancing accessibility for users, allowing them to conveniently view and book appointments without any confusion or scheduling conflicts.

### Disaster Management System (Smart India Hackathon 2020)

August 2020

- Problem Statement was to reach out to maximum masses during the time of natural disaster effectively.
- Lead team of 6 students to create alerts for nearby users in disaster areas through website using Django, cross platform mobile app using Flutter, advertisement on social media using satellite data and scraped news to successfully enhance the safety of individuals.
- Incorporated features to provide users in disaster prone zones with all emergency services by using the SOS button resulting in notifying all authorities through single platform enhancing users' safety during critical situations.
- Employed Machine Learning Algorithms to remove non-disaster scraped news using Natural Language Processing by an impressive 69% ensuring that users receive accurate and relevant information related to disasters which will be actionable during critical times.

### Keya (Smart India Hackathon 2019)

March 2019

- Problem Statement was to modify the original Keya which was Kotak Mahindra Bank Chatbot having the feature to just answer pre-defined questions to include the features to make it user-friendly.
- Lead team of 6 students to design Keya using RASA framework boasting various advanced features like multilingual support, voice enabled input-output capabilities, integrating FAQs scrapped from Internet, locating nearby banks and ATM's, changing ATM PIN and block credit card securely with the help of OTP to enhance the ease with which users do the transactions through the bot.
- Facilitated seamless user access to the chatbot by deploying it on daily used platforms like Google Assistant, Alexa, Facebook Messenger leading in higher adoption rates among the user surpassing the cumbersome and time-consuming traditional methods.

## AWARDS/ACHIEVEMENTS

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|---|----------------|
| • Springer Paper – Personal Assistant for Career Coaching   | September 2020 |
| • Finalist (Top 6) in Smart India Hackathon 2020 from about 450 teams nationwide  | August 2020    |
| • IEEE Paper – Automated Identification of Disaster News for Crisis Management using Machine Learning and Natural Language Processing | July 2020      |
| • IEEE Paper – A Comparative Study on Solar Power Forecasting using Ensemble Learning   | June 2020      |
| • Winner of Smart India Hackathon 2019 from about 500 teams nationwide  | March 2019     |

## SKILLS

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**Full Stack Technologies:** HTML, CSS, JavaScript, Bootstrap, React, Angular, PHP, Django, Flask, Node, RESTful Services, REST API

**Web Scraping:** Scrapy, Octoparse, Selenium

**Programming Language:** Python, C, C++, Java

**Version Control:** Git (GitHub, GitLab, Bitbucket)

**Data Science / Analytics:** Machine Learning Algorithms and Libraries, Data Visualization, Data Cleaning, MATLAB, Tableau, R

**Artificial Intelligence Technologies:** Deep Learning, Computer Vision, Natural Language Processing, Reinforcement Learning, Chatbot Development (RASA)

**Cloud Technologies:** AWS, Google Cloud, Microsoft Azure Cloud, Heroku

**Mobile Application Development:** Java, Flutter (Dart), Kotlin

**Competitive Programming:** Linked List, Queue, Stack, Trees, Heap, Graphs, Hash Tables