

Ameya Santosh Gidh

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EDUCATION

Northeastern University, Khoury College of Computer Science, Boston, MA. Sept 2021– Aug 2024
Masters in computer science GPA – 3.75 / 4
Relevant Courses: Machine Learning, Natural Language Processing, Data Structures, algorithms and their applications in computer systems, Web Development, Mobile App Development
University of Mumbai Sardar Patel College of Engineering, Mumbai, India Aug 2017 - May 2021
Bachelor of Technology GPA – 9.20 / 10

TECHNICAL KNOWLEDGE

Programming languages and tools: Python, Java, JavaScript, C++, C#, C, MATLAB, TensorFlow, PyTorch, Pandas, Nltk
Cloud Platforms and Technologies: Amazon web service (AWS), Apache Kafka, Microsoft Azure, Docker, Spring Boot
Web Development Frameworks: Node.js, React.js, Angular, Express.js, jQuery, Flask, Django, Bootstrap, HTML, CSS
Database and Data Visualization tools: MongoDB, SQL Server, MySQL, PostgreSQL, Firebase, Tableau

PROFESSIONAL EXPERIENCE

Delsys | Software Engineer Coop Natick MA | Jan 2023 – Aug 2023

- Expanded functionality of Discover software using coded in **C#** and following **MVVM** architecture, writing **batch** scripts that efficiently interacts with **Delsys API**, perform firmware updates, extract vital sensor data and established foundation for adding more similar enhancements, improved **user satisfaction** and lowered queries to support team
- Built a **UI/UX** app in **Python**, modularized code for improving reducibility, scalability, maintainability, and reusability
- Successfully Programmed state-of-the-art **C++** software, used **Json** and **Google Protocol buffer** to transmit, handle and analysis data, containerized the application with **Docker**, streaming the development and production process, this resulted in expanding support for the next generation Delsys sensors to seamlessly integrate with Vicon Nexus software

Northeastern University | Graduate Teaching Assistant Boston, MA | May 2022 – Dec 2022

- Supported course delivery by supervising exams and evaluating assignments for the course **Theory of Computation**

Adagrad AI | Machine Learning Intern Maharashtra, India | July 2020 - Sept 2020

- Deployed a **CNN** model created using **PyTorch** on **Microsoft Azure** for accurate melanoma skin cancer prediction
- Critically analyzed data patterns, derived feature maps from pooling layers which improved the recall by **8%**
- Fine-tuned the **object detection** model made with **OpenCV** and **YOLO** for the project 'AutoDefectDetect' which aimed towards precise flaw detection in automotive parts, achieving **97%** precision thus helping in quality control

ABP Systems and Solutions | Java Software Engineering Intern Maharashtra, India | July 2020 - Sept 2020

- Built a **java spring boot** ecommerce website following **microservices** architecture, integrated **Apache Kafka** pipeline for data streaming, monitoring of real-time customer order processing, which reduced **API response time** by **15%**
- Collaborated with a team of **20** to perform comprehensive **black-box** testing ensuring robustness and code integrity
- Created a payroll management application for the company using **MVC** pattern, used **CI/CD** tools like **Jenkins** and **Maven** for development, stored employee data on **MYSQL**, and deployed the application with **Amazon web services**

PROJECTS

Time Series Analysis and Recurrent Neural Network Analysis with Financial Data Oct 2022 - Dec 2022

- Trained **Deep Learning** models like **RNN**, **LSTM**, **ARIMA** and performed **time series analysis** using **TensorFlow** and other libraries to predict stock prices on S&P500, Nasdaq data, obtained **accuracy** of **95%** and **f-1** score of **96.5%**
- Developed a **REST API** and effectively deployed the model using **Flask** for enhancing user experience and help in testing

Movie Time June 2022 - Aug 2022

- Built a Movie streaming **MERN** Stack website with **React**, **JavaScript**, **html**, **CSS**, **bootstrap** and **jQuery** for creating engaging user interface, **Node.js** for server-side functionality, **Express.js** for routing and **Mongo DB** for storing data
- Secured user login with context API and **JWT** tokens, added admin dashboard for comprehensive analytics and control

Godzilla Finance May 2022 - June 2022

- Designed android expense tracker and budget manager app using **Java**, **Firebase** and **Figma** with features like timely statistical visual reports, integrated crypto expense tracker, stock news feature, performed EMI and tax calculations
- Conducted comprehensive code reviews, led the team by adeptly navigating roadblocks using **GitHub** and **Jira**

ACHIEVEMENTS AND OTHER ACTIVITIES

- Graduate Research apprentice working on enhancing KnitGIST programming language, testing it with CAD software
- Organized event, devised marketing strategy for "Her Incredible Minds" nonprofit promoting young women in STEM
- Authored and Published a Research paper titled Design and Simulation of Electric Vehicle in IJARIE