KAARTIKEYA PANJWANI

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Education

New York University, New York, NY — May 2025
Master of Science, Computer Science — GPA: 3.8/4.0

Vellore Institute of Technology, Tamil Nadu, India — Aug 2023
Bachelor of Technology, Computer Science and Engineering — GPA: 3.5/4.0

Experience

Software Developer, NYU Courant Institute of Mathematical Sciences, New York, USA — May 2024 – Present
- **Spearheading** the development of the **AI4Health website** using **React, HTML, Tailwind CSS, and WordPress**
- **Collaborating** with designers and backend developers to **create seamless and visually appealing user interfaces**
- **Implementing** responsive design principles and dynamic content to **ensure optimal performance** across various devices and browsers
- **Conducting** thorough **code reviews** and testing to uphold high standards of code quality and functionality
- **Utilizing** project management tools to **track progress** and **meet deadlines** efficiently

Web Development Project Lead, Namhya Foods, Gurugram, India — Jan 2021 – Jul 2023
- **Developed** the website for the venture for their online market using **HTML, CSS, Javascript, PHP** and Shopify that increased their sales by **1.8x**
- **Expanded** my role as **advisor** to the development team and **spearheaded** the project, applying search engine optimization and social media marketing that **increased** the company's market reach by **37%**
- **Coordinated** with the development team and **mastered Shopify** and **utilized** its functionality to create an online web store for the venture

Projects

Wi-Fi Hotspot Locator Web Application, New York University, New York, USA — Sep 2023 – Dec 2023
- **Developed** a Wi-Fi hotspot locator web application for the citizens of New York City using **HTML**, **CSS** and **JavaScript**
- **Utilized React.js** for the **frontend**, creating a responsive and **dynamic user interface**
- **Implemented Node.js** for the **backend** to handle **server-side logic** and **API interactions**
- **Integrated Google Maps API** for **geolocation services** and map rendering and **employed RESTful API principles** for seamless communication between the frontend and backend

NYC 311 Service Data Science Project, New York University, New York, USA — Sep 2023 – Dec 2023
- **Integrated** 34M 311-Service Requests with NYC DOITT ZipCode data, enabling comprehensive analysis of **spatial, temporal, numeric, categorical, and text features** for valuable service request insights
- **Optimized Resource Allocation** by developing a **predictive model using regression analysis** with highest **accuracy of 87.11%** by **Random Forest Regressor** for 311-service requests, reducing response delays caused by departmental unavailability
- **Implemented classification techniques** to identify specific scenarios requiring **additional resources for prompt resolution**, contributing to a more efficient handling of service requests with **highest accuracy of 91.28% by XGBoost classifier**

Skills

Technical Skills: Web Development, Machine Learning, Application Development, Database Management, Data Analysis and Interpretation
Programming Languages: Python, HTML, CSS, JavaScript, PHP, C, C++, R, Swift, MySQL
Frameworks/Libraries: React JS, Django, NumPy, Pandas, Hadoop, NLTK(Natural Language Toolkit), TensorFlow, PyTorch, SciPy, Scikit-Learn
Other Software/Tools: Google Colab, Jupyter, Android Studio, Xcode