

YASH GUPTA

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EDUCATION

University of Wisconsin, Madison - Computer Science + Data Science B.S., Entrepreneurship Minor

May 2025

Related Courses: Object Oriented Programming, Advanced Data Structures, Data Management & Statistical Analysis in R, Introduction to Python, Linear Algebra, Machine Organization and Programming, Advanced Data Analysis and Visualization with Python, Discrete Mathematics

TECHNICAL EXPERIENCE

The Level Company - Intern

June 2023 - Present

- Created sequential large language models with GPT-4 using LangChain in Python for multi-stage process to generate effective and personalized messages to enable more connections with potential advisors, resulting in significantly higher response rates
- Collaborated with client services team to utilize LinkedIn Sales Navigator to automate finding advisors, sourcing over 200 new advisors
- Automated reengagement email outreach campaigns using SendGrid API and Python, leading to an increase of over 50% in re engagement rates
- Worked with LinkedIn APIs to automate scraping profile information and implemented Python algorithms to filter JSON and spreadsheets for relevant fields

UC San Diego: Division of Biomedical Informatics - Intern

June 2020 - March 2023

- Worked on creating efficient and secure medical data transfer through Ethereum blockchain
- Headed development on user interface for medical data using Java and HTML5/CSS3
- Utilized Solidity and managed AWS virtual machines to work on the backend of the blockchain
- Implemented in 12 university hospitals with high success rates
- Co-author on [publication](#) in Journal of American Medical Informatics Association (JAMIA); presented work to National Institute of Health officials at local conference

PROJECTS

enRollBadge (enrollbadge.com)

May 2023 - Present

- Created unique software that allowed UW Madison students to receive real time notifications when class seats open
- Led a team of 4 developers to seamlessly integrate the API and scraping functionality to enable efficient data exchange between backend and frontend
- Headed development and continuously maintained on frontend and user interface in ReactJS and Tailwind CSS
- Implemented JSON parsing algorithms in Python to process data received from the backend API
- Developed a dynamic table using ReactJS to display and manage class information, with integrated search functionality.
- Utilized effective marketing strategies resulting in a significant increase in site views, with over a thousand visits, and generated hundreds of new sign-ups within a span of two days.

Analyzing the Effectiveness of Novel Classification

July 2020 - June 2021

Techniques for Detecting Knee Cartilage Damage

- Designed machine learning models with accuracy of over 95% to detect knee cartilage ruptures in knee cartilage MRI images early and counter osteoarthritis, outperforming traditional human methods
- Created dataset with Python algorithms that filter, preprocessed, and merged a combination of 1.2 million knee MRI images from different sources
- Utilized Tensorflow and Python to develop and deploy machine learning models on dataset
- Developed precise accuracy metrics to compare effectiveness of different machine learning models to find the most optimal model using SciKit Learn
- Recognized as 1st place in San Diego Greater Science and Engineering Fair and qualifier to California State Fair

EXTRACURRICULAR

Northwestern University's WildHacks Participant

April 2023

- Designed web application with a team of 4 developers that allows dyslexic kids to gain personalized training against certain issues in a fun and interactive way through a series of mini games
- Received Best Accessibility Hack Award Sponsored by Fidelity out of 387 participants across the country
- Created game recommendation machine learning model implemented in SciKit Learn to recommend users games based on diagnostic test
- Created word recommendation model for mini-game, WordWhiz, using Naive Bayes classifier implemented with SciKit Learn
- Developed Flask API to communicate and integrate machine learning model into frontend
- Developed frontend form page for diagnostic quiz using React.JS and Tailwind CSS

SKILLS

- ❖ **Programming Languages:** Java, Python, C, HTML/CSS, Git, Bash, R, SQL
- ❖ **Web Development:** HTML5, CSS3, JavaScript, NodeJS, ReactJS, NextJS, TailwindCSS, Flask, A/B Testing
- ❖ **Frameworks:** Tensorflow, PyTorch, ScikitLearn, Pandas, AWS (EC2), SQLite, Selenium