PRANAY GUPTA

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EDUCATION

University of Michigan — Ann Arbor, MI

B.S.E. *in Computer Science,* B.B.A. *in Business Administration* - GPA: 3.60 / 4.00 — *May 2025*

- **Course Highlights:** Algorithms and Data Structures, Computer Organization/Architecture, Programming, Discrete Mathematics, Business Strategy
- **Activities:** V1 Michigan (Head of Recruitment and Internal), Michigan FinTech (Algo-Trading Team Developer)

EXPERIENCE

AiPi Solutions — Ann Arbor, MI

Machine Learning Intern - Part Time — *May 2023 - Present*

- Spearheaded the collection and cleansing of training data for OpenAI's GPT model, resulting in enhanced model accuracy and efficiency of 95%
- Developed **Python** scripts to streamline the data formatting process, enabling efficient data training, which enhanced our data processing speed by over 10 times for large data sets.
- Led the development and deployment of an automated editing process software tool, allowing exployees to seamlessly edit documents

PROJECTS

Thrive Track - Personalized Nutrition Mobile App — *April 2023 - Present*

- Developing a comprehensive nutrition app leveraging **React Native**, providing personalized meal plan suggestions and ensuring optimized user experience across iOS and Android platforms.
- Integrating **third-party APIs** for accurate, real-time nutritional data, enhancing the app's functionality and user relevance.
- Applying **agile methodologies** to foster continuous app improvements based on user feedback, contributing to the overall app productivity and effectiveness.

Web Application Development - AiPi Solutions — *June 2023 - Present*

- Developed a responsive web application utilizing **Next.js 13** and **Tailwind CSS**, streamlining user interactions for document upload and AI-assisted editing.
- Implemented **Mammoth.js** and **Formidable** for robust parsing of Word documents and secure file uploads, ensuring seamless data transmission for AI processing.
- Created a comprehensive pipeline that integrated document parsing, **AI** interaction, and return of edited Word documents, boosting the application's productivity.

SillyQL Database Simulator | C++, Git, OOP, STL Maps, Hashing — *February 2023*

- Developed a relational database simulator, integrating key **data structures** for command execution
- Processed database commands such as CREATE, DELETE, JOIN, improving practical skills in query languages
- Utilized runtime analysis for optimal algorithm design, enhancing efficient data structure management
- Managed larger composite data structures and refined command handling logic similar to real-world databases

SKILLS

Languages	C/C++, JavaScript, Python, Typescript, HTML, Java, Matlab
Technologies	Git, Excel, R Studio, MySQL, React, Next.js, React Native, Django