Current Address

KARTIK UPPALAPATI
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(913) 343-3299

Permanent Address

45699 Long Fellow Dr, Shelby
Township MI, 48315

559 Purple Sage Lane, Simi
Valley CA, 93010

EDUCATION

Purdue University   **August 2018 – December 2022**

Bachelor of Science in Computer Science, Minor in Mathematics

PROFESSIONAL EXPERIENCE

General Motors, Warren, MI (*Data Analyst/Machine Learning Engineer***)**   **Feb 2025 – Current**

- Conducted exploratory data analysis on primary datasets and models using Pandas and existing data pipelines to reveal key insights and areas for model improvements.

General Motors, Warren, MI (*TRACK Team Lead Software Engineer***)**   **August 2024 – Feb 2025**

- Led cross-functional team to improve project tool used by 150+ engineers across various programs. Efficiency gains upward of 17% and assisted incoming engineers on projects with new technologies (Primer, MetaPost, and Ansa).

General Motors, Warren, MI (*TRACK Data Analyst***)**   **August 2023 – August 2024**

- Spearheaded a project aimed at standardizing data streams across multiple programs and teams, resulting in automatic parsing and uploading of previously lost data increasing data retention by approximately 33%.
- Acted as the primary data expert, delivering data-driven insights and interpreting complex datasets, leading to a 51% reduction in data processing time.
- Developed Python scripts and SQL queries to facilitate data movement and analysis, resulting in a 11% increase in data extraction efficiency.
- Contributed to the creation of data visualizations for engineers using tools such as Tableau and Power BI, enabling efficient data processing using virtual machines and cloud deployment services.

General Motors, Warren, MI (*TRACK Software Engineer***)**   **January 2023 – August 2023**

- Served as Product Manager overseeing long-range radars utilized for Super Cruise feature on the Electric Hummer program. Oversaw the upgrade to next-gen radar technologies while maintaining program alignment and achieved early completion.
- Led project with Radar Expert involving the validation and correlation between virtual and physical testing. Explored possibility of using predictive modeling to determine problem spots with the model. Results of the project will strengthen the growth of predictive model technologies, reduce testing time by over 37% and require half as many resources.

Engineering Innovation, West Lafayette, IN (*Associate Software Engineer***)**   **September 2020 – August 2021**

- Implemented new features and refactored Python codebases for both frontend and backend systems, utilizing modern design patterns such as MVC (Model-View-Controller) and ORM (Object-Relational Mapping) to improve reliability and address customer requirements.
- Responsible for projects dedicated to exploring and using natural language processing techniques to improve customer search results. Using ELK Stack, PyTorch models, and Prompt Engineering to fine tune client search requests.

Mind Mantra Tutoring (*CFO***)**   **September 2020**

- Designed, implemented, and deployed a machine learning algorithm for optimal pricing strategies resulting in a 15% increase in customer retention rates using Python, Scikit-learn, and TensorFlow.
- Developed a comprehensive financial and client management system from scratch utilizing a tech stack consisting of Node.js, SQL, and AWS RDS, HTML, CSS, JavaScript and Bootstrap as well as CI/CD pipelines for maintenance.

SKILLS & PROJECTS

- **Skills:** Python (4 years), C (3 years), Java (5 years), Six Sigma Green/Black Belt, JavaScript, SQL, PyTorch, TensorFlow, R