VARUN PRAVIN DEOKAR

(480) 919-3519 | vdeokar1@asu.edu | www.linkedin.com/in/varun-deokar | Tempe, AZ

EDUCATION

Arizona State University, Tempe, AZ   **December 2024**
Masters of Computer Science   **(GPA 4.00/4.00)**

Vidyalankar Institute of Technology, University of Mumbai, India   **May 2022**
Secured Bachelor of Engineering in Information Technology with *Distinction*   **(GPA 3.81/4.00)**

PROFESSIONAL EXPERIENCE

Tochigami, Honolulu, Hawaii   **January 2025 - Present**
Software Developer

- Automated the extraction of property details from multiple real estate websites, reducing scraping time by 90% and significantly lowering error rates.
- Developed a data preprocessing pipeline to clean and transform real estate data before storing it in Amazon S3 for efficient access and analysis.
- Built a web application using React and Flask, enabling real estate agents to seamlessly list and manage properties.

Graduate Teaching Assistant   **January 2024 - December 2024**

Graduate Teaching Assistant at Arizona State University, assisting students in understanding and conducting laboratory experiments.

Invisible Group Partners LLC, California, USA   **April 2022 – July 2022**
Data Science Intern

Invisible Group is a California-based LLC specializing in data-driven approaches to discover overlooked real estate investments.
- Extracted data for over 10 cities in USA using APIs and libraries such as Beautiful Soup, Scrapy, and Selenium.
- Processed over 1 million diverse data points to ensure data quality and enhance model training, improving model accuracy.
- Trained and fine-tuned a range of machine learning models, including XGBoost, LightGBM (LGBM), and TabNet, to predict real estate prices with a RMSE of less than 2%.
- Deployed a Flask-based web application on Amazon Web Services (AWS) infrastructure, enabling user input for real-time predictive purposes.
- Optimized data transfer workflows between local systems and Google Cloud Platform by implementing efficient data handling procedures, leveraging Bigtables and buckets, enhancing data management and accessibility.

ACADEMIC PROJECTS AND PAPERS

Chat App using React and Node JS

Developed a real-time chat application using React, Tailwind CSS, and Socket.IO, with authentication via JWT and state management using Zustand. Built a RESTful backend with Express and MongoDB, leveraging Vite for development and ESLint for code quality.

Vast Mini Challenge

- Spearheaded a team of five individuals in completion of the VAST 2019 challenge, creating a dashboard which established immediate situational awareness for St. Himark during natural disasters like earthquakes.
- Facilitated the streamlined allocation of resources and aid to the community by government officials.
- Utilized technologies such as D3 and Javascript to create a interactive web interface using data visualization techniques.

DocFix - One website for all your document needs

- Constructed a website with Flask to integrate several NLP features such as Text Summarization, and Sentiment Analysis.
- Authored and published a paper on DocFix in the International Research Journal of Engineering and Technology in November 2021, Volume 8, Issue 11, ISSN: 2395-0056.

TECHNICAL SKILLS

- **Languages**: Python, Java, C, JavaScript, TypeScript, Go, HTML, CSS, SQL, NoSQL.
- **Relevant Skills:** Machine Learning, Data Science, Software Development, Web Development, REST APIs, Wireframing, Testing and Automation, Database Management, Data Analysis, DSA, Version Control Systems.
- **Technologies and Frameworks**: Git, CMD, Bash, JQuery, Bootstrap, React, Node JS, Express, Flask, Django, Matplotlib, SciKit-Learn, Pytorch, D3 JS, GCP, AWS, Tailwind, DaisyUI, Scrapy, Playwright, Selenium, Docker.
- **Software**: Github, VS Code, PowerBI, Anaconda, Google Colab, Microsoft Excel, Tableau.
- **Additional Skills**: Academic Writing, Competitive Coding, Adobe Creative Apps, Documentation.