Yashkumar Maheshwari

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Education

- **Master of Science - Computer Software Engineering** — Aug'22 - Present
  Arizona State University — *Tempe, Arizona, USA*
  Current GPA: *3.63/4.0*
  Courses: *Foundation of software Engineering, Software Design, Advanced Data Structures and Algorithms, Game Designing, Human Computer Interaction, Software Verification-Validation and Testing, Semantic Web Engineering.*
- **Bachelor of Engineering - Computer Engineering** — Jul '18 - May '22
  Gujarat Technological University — *Ahmedabad, Gujarat, India*
  GPA: *8.96/10.0*
  Courses: *Data Structures and Algorithms, Operating Systems, Software Engineering, Database Management System, Artificial Intelligence, Computer Networks, Machine Learning, Data Mining.*

Skills Summary

- **Languages**: Python, Java, C++, JavaScript, C#
- **Frameworks**: SK Learn, TensorFlow, Keras, Django, Dialogflow, Pandas, Matplotlib, Open CV, Spring
- **Tools**: GIT, AWS, MySQL, MongoDB, Celery, Docker, Kubernetes, Jira, LaTeX
- **Soft Skills**: Leadership, Collaborative Working, Event Management, Public Speaking, Time Management

Work Experience

- **Software Development Intern (AI/ML)** — Jan '22 - Jul '22
  Fero.Ai — *Ahmedabad, India*
  - **Responsibility**: Worked with Intelligent Virtual Assistant(IVA) Team and added functionalities to existing product, built chat-bots for Logistics and Supply Chain Industry with Dialogflow NLU Engine and Django as backend.
  - **Prototype Tool**: Integrated Dialogflow with Django to the presentation tool allowing to create dynamic conversation without explicit typing, saving time for developers to understand the product by 30%.
  - **Route Optimization**: Pre-processed data worth 80k instances, and designed models to replace existing static route optimization service with in house ML enabled tool cutting companies cost to 50%.
  - **Feature Addition**: Led a team with 2 interns to use Google Translate API to satisfy the translation and enable language switching in between conversations. Used Redis to reduce the average response time by 50% i.e. from 6 sec to 3 sec.
- **Data Science and Business Analyst Intern** — Jul '21 - Aug '21
  The Sparks Foundation — *Remote*
  - **Learning**: Applied and understood basic Machine Learning Algorithms and implementation
  - **Exploratory Data Analysis**: Performed EDA on 10K instances and create visualizations for sales of a superstore.
  - **Stock Prices Variation from News Headlines**: Conducted Time series Analysis to predict the changes in the stock prices based on the nature of the headlines on that day, where positive headlines caused stock to rise and negative to drop.
- **Software Development Volunteer** — Apr '21 - Jul '21
  Dhanvantri Covid Hospital - Government of India — *Ahmedabad, India*
  - **Data Processing**: Processed data stored in PostgreSQL on patient details, to make it usable for visualizations.
  - **Data Visualizations**: Created Bar Charts, Line graphs and Pie Charts for press release to visualize Patients admitted, Patient Recovery, Patients Discharged (Normal, DAMA), Death. with average 800 patients on premise daily.
  - **Dashboard Development**: Developed a complete dashboard with features like timeline and data scrolling, providing an interactive interface for users.

Projects

- **Sudoku Solver / Challenger**:
  Solve a Sudoku, verify your Solution to a Sudoku and allows to create a Sudoku board to challenge someone else.
- **Safe-Screen : Non Invasive Child Monitoring app**:
  - **Created REST APIs**: Developed REST APIs using Java to fetch data from different sources.
  - **Optimized data storage**: Optimized data storage using PostgreSQL, reducing data fetching times by 17%.
  - **Data pipeline**: Created a data pipeline for sending and processing data to perform different functions.
- **Automatic License Plate Recognition System**:
  Automated the process of detecting the license plate using just a photo of vehicle. Optimized the detection time to enable real-time detection and applications. Implemented it using image segmentation and image processing using Keras.
- **Movie recommendation system**:
  Built a movie recommendation system that takes into account the previously watched movies and suggests accordingly. Added the feature to filter out the suggested movies to further improve the recommendation system.