Yashkumar Maheshwari

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Education:

Masters of Science – Software Engineering   Aug 2022 - Present
Arizona State University, Tempe, Arizona, United States of America
Receiver of New American University Scholarship worth $6000
Current GPA: 3.56/4.0
Courses: Foundation of software Engineering, Software Design, Advanced Data Structures and Algorithms, Human Computer Interaction, Data Visualisation, Knowledge Representation and Reasoning.

Bachelors of Engineering – Computer Engineering   Aug 2018 – May 2022
Gujarat Technological University, Ahmedabad, India
Current GPA: 8.96/10.0
Courses: Data Structures and Algorithms, Operating Systems, Software Engineering, Database Management System, Artificial Intelligence, Machine Learning, Data Mining

Skill Summary:

Languages	**:** Python, Java, C++, PHP
Tools	**:** GIT, PostgreSQL, MySQL, SQLite, MongoDB, Redis, Celery, OR Tools, Swing, AWT
Frameworks	**:** Scikit Learn, TensorFlow, Keras, Django, RASA, Dialogflow, OSRM, Pandas, Matplotlib, Seaborn, Open CV, Spring, Hibernate
Platforms	**:** Linux, Windows, iOS
Soft Skills	**:** Leadership, Team Member, Event Management, Writing, Public Speaking

Experience:

Machine Learning Intern – Fero.Ai   Jan 2022 - Jul 2022
- Worked with Intelligent Virtual Assistant (IVA) Team and added functionalities to existing product.
- Built chatbot 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 created models to replace existing static route optimisation service with in house ML enabled tool cutting companies cost to 50%.

Data Science and Business Analyst Intern – The Sparks Foundation   Jun 2021 - Jul 2021
- Worked and understood basic Machine Learning Algorithms and implementation.
- Performed EDA on Dataset with more than 10K Data Points and performed data visualisation on same regarding sales of a particular superstore over multiple franchise in United States.

Web Development Intern – Creart Solutions   May 2021 – Jun 2021
- Developed an admin panel and provided CRUD operations for a ceramic website using PHP backend and MySQL database.
- Built a project management Web Application with Laravel containing features such as task management, tracking and assignment.

Projects:

- **Automatic Number Plate Recognition System:**
  Automated the process of detecting the number plate using just a photo of vehicle. Moreover, optimised the detection time to enable real-time detection and applications. Implemented it using image segmentation and image processing using Keras.
- **Sentiment Analysis:**
  Implemented a Natural Language Processing model to detect the sentiment of any sentence. Can be used for improving the chat capabilities of any existing chatbot. Used recurrent neural networks for optimised training and testing.
- **Resume Screener:**
  Used Natural Language Processing to automate the task of sorting resumes. Using models like LSTMs and Recurrent Neural Networks, implemented multiclass classification task so that it can be divided according to the applied role of the applicant.
- **Customer Segmentation**:
  Segmented our customer base using clustering techniques like hierarchical clustering and density-based clustering. Moreover, named the clusters according to the nature of divided clusters to further facilitate the process of customer segmentation.
- **Movie recommendation system:**
  Built a movie recommendation system that takes into account the previously watched movies and suggests accordingly. Moreover, added the feature to filter out the suggested movies to further improve the recommendation system.
- **Multi-Lingual Voice Assistant:**
  Built a Dialogflow based voice assistant with Django and used Google Trans 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
- **Sudoku Solver:**
  Currently working on solving sudoku using given problem using basic rules and mathematical formulas.