

Jayesh Parsnani

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EDUCATION

The University of Texas at Arlington Master of Science, Major in Computer Science	GPA 3.8/4.0	Arlington, TX Aug 2021 - May 2022
Vivekanand Education Society's Institute of Technology Bachelor of Engineering, Major in Information Technology	GPA 3.3/4.0	Mumbai, India Aug 2017 - June 2021

WORK EXPERIENCE

Graduate Teaching Assistant The University of Texas at Arlington <ul style="list-style-type: none">Aided Data Mining professor in overseeing a class of 38 students, including organizing, administering, and evaluating student's homework and exams.Helped 12 students in resolving their questions regarding their assignments or coursework which helped them to score in their assignments and exams.	January 2023 – Present Arlington, TX
Graduate Research Assistant Raid Labs (Department of Research) <ul style="list-style-type: none">Co-ordinated, Collaborative work with team of 2 and a Ph.D. professor guided by Dr. ERICK C. JONES on an AI technology project funded by NSF.Refined a deep learning object detection model (Single shot detector) that can detect pill confirmation with an accuracy ranging between 80 to 95%.Blended Technologies used are Python, MobilenetV1-SSD for integrating model in mobile devices and LabelImg for labelling the image dataset.Published research paper in International Supply Chain Technology Journal detailing the successful development of the deep learning model.	February 2022 – May 2022 Arlington, TX
Software Developer (Intern) Trivia Software <ul style="list-style-type: none">Exposed to the various Java SE 8 related technologies and implemented Management System Design application using MySQL, and Java Hierarchies.Managed and applied Create, Read, Update and Delete (CRUD) operations in parallel for employee records over 1000+ employees within organization.Programmed and integrated a new functionality which triggered a pop-up tune whenever a record was eliminated through the deletion operation.	June 2019 – Aug 2019 Thane, India

SKILLS

- Programming Languages:** Python | Java | C | R.
- Tools and Frameworks:** Flask | Nodejs | Spring Boot | Django | PHP | IOT | GitHub | TensorFlow | JSP | Power BI | Oracle | Postgres | Eclipse.
- Cloud Technology and Database:** AWS (EC2) | Azure (Redis, Azure Data Studio) | MS MySQL | NoSQL | MongoDB | Tableau | Hadoop.
- Web Technology:** HTML&CSS | Bootstrap | Ajax | WebApis | JavaScript | JSON | Node.js | Vue.js | jQuery | REST API | WebSocket.
- Data Mining:** Math and Statistics | Google Collab | R programming | Data Cleaning, Data Modelling and analysis and Data Visualization

ACADEMIC PROJECTS

Cloud Computing <ul style="list-style-type: none">Designed a web application using Python and Flask Framework that allows users to fetch 10000+ data from Azure Database using SQL queries and view earthquake data from the last 30 days, search for earthquakes within a specific magnitude range, locate earthquakes within their current radius.Optimized the application's performance by implementing caching using Azure Redis, resulting in a 50% reduction in response time (from 8 seconds to 4 seconds) and deployment of the application onto the browser through Azure app services.Implemented data visualization techniques using D3.js to display search results in a graphical format (Bar or Pie chart, Scatter plot) within the browser.
Machine learning: Gender Prediction using Body Measurements <ul style="list-style-type: none">Created a machine learning model to predict the gender of an individual considering various physical measurements such as Height, Weight and Age.Performed data cleaning and preprocessing on the raw dataset utilizing Python's built-in string manipulation and the data handling functions.Developed a K-Nearest Neighbors (KNN) model from scratch, trained the model and achieved an accuracy of 75% on a test set of 1,000 samples.
Diet Recommendation System for Diabetic Patients (LINK) <ul style="list-style-type: none">Conceptualized personalized diet and exercise schedule by using the AI algorithms like K-means and Decision tree classifier model in the application.Developed a K-means algorithm to generate diet plans based on an individual's health information which has 93% accuracy rate and delivered the plans in 30 seconds, which is faster than the previous algorithm BIRCH, which took approximately 6 minutes to do the same task.Designed Decision Tree Classifier algorithm for generating Exercise-Plan as per the individual health details which achieved an accuracy rate of 87.9% and runtime of 40 seconds which was faster and outperformed other algorithms that were tested on rapid miner tool.
Car Parking System <ul style="list-style-type: none">Orchestrated an entire process using IoT-based Raspberry Pi technology for users to park their vehicles efficiently and reducing parking time by 25%.Developed an automated license plate recognition system that processed 100+ images daily, using camera modules and cutting-edge image processing techniques which extract text and store it in a SQL database; reduced manual data entry time by 80% and increased processing speed by 50%.Integrated a robust security feature using Twilio API which notifies users via text message in case their vehicle is relocated from the original parking location which is sensed by Ultrasonic sensor whether user car is parked or not.

CERTIFICATIONS

<ul style="list-style-type: none">Certification of completion (Google Analytics for Beginners)Participation in International E-Conference International Journal of Engineering Research and Applications	VESIT
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