VENKATA KARTEEK PALADUGU

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EDUCATION

- **Rochester Institute of Technology**, Rochester, NY *Aug 2019- Dec 2021*
  Master of Science in Computer Science, GPA: 3.97/4.0
  Merit-based Academic scholarship:75%
- **Indian Institute of Technology**,Jodhpur, India *2012- 2016*
  Bachelor of Technology in System Science

TECHNICAL SKILLS

- **Languages:** Java, Python (Pandas, Numpy, Matplotlib) SQL, JavaScript, HTML, CSS, MATLAB
- **Database:** Postgres, MySQL, Oracle, MSSQL
- **Frameworks:** Spring Boot, Junit, Hibernate
- **Tools:** Tomcat, Git, Jenkins , PyCharm, Eclipse, Jupyter Notebook

EXPERIENCE

Engineering Development Group Intern
Mathworks *May 2021 – Aug 2021*

- Responsible for handling MATLAB App Building figure position while adding custom menu and tool bars in the figure.
- Documented use cases for the feature in confluence, designed architecture by learning solid architecture principles and implemented the design using JavaScript.
- Tracked the progress using Jira and used Perforce as version control software for the code.

Graduate Teaching Assistant
Rochester Institute of Technology *Aug 2020 – May 2021*

- Conducted recitation sessions for over 100 students in the courses related to Java and Python.
- Conducted virtual mentoring hours to mentor undergraduate students regarding their labs and assignments.

Software Engineer
GGK Technologies Pvt. Ltd., Hyderabad, India *Nov 2016 – Aug 2019*

- Designed and developed a self-service business intelligence web-app analogous to Tableau or Power BI using Java/Spring MVC, AngularJS 1.5(HTML, CSS, JavaScript, jQuery) and SQL.
- Developed APIs for features like subscription of reports, row level security in models, data modelling through custom SQL queries, calculated column operations, filtering of data.
- Used OAUTH2 and iframe-iframe communication for integrating the app with external app which enables this product to be used as a plugin in a different application.
- Reduced a significant amount of time (10-8sec to 2-4sec) for data to be extracted and visualized by using efficient algorithms, pooling connections and optimizing queries.
- Awarded Star of the month for impressive performance and attitude.

PROJECTS

Live Sudoku Solver | Python, OpenCV, Keras *Feb 2021*

- Extracted the frame and sudoku puzzle using OpenCV and using CNN identified the digits in the puzzle and solved the puzzle through backtracking algorithm and finally showed the solution in the frame.

GPS Data Analysis | Python, Pandas, Matplotlib *Dec 2020*

- Cleaned and structured the data from an Arduino micro-controller and removed anomalies and developed a model to identify stop signs, left turns and right turns using several decision stubs to classify.

Classifying Hand Written Digits | Python, Matplotlib *Nov 2020*

- Trained a three-layer perceptron classifier with output layer being softmax layer to classify 10 digits in MNIST dataset.
- Used one hidden layer with 32 hidden nodes and trained the model on MNIST training set by using cross-validation and L2 regularization and achieved 98% accuracy.

Nuclei Segmentation: | MATLAB *Aug 2020*

- Analyzed different images of Nuclei and then preprocessed the image in MATLAB with appropriate selection of color channel and morphological operations.
- Segmented and classified the the Nuclei using sophisticated algorithms such as Otsu's method and marked watershed algorithm.

Data Minining on Yelp Dataset: | Python, PostgreSQL, MONGODB *Apr 2020*

- Designed ER model from the YELP data and later integrated into POSTGRES.
- Cleaned and Integrated the data into MONGODB and performed itemset mining using Apriori algorithm in PYTHON and found popular cuisines among restaurants in all popular cities in United States.