Rasagnya Reddy Kadari

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Education

Old Dominion University   May 2024
Master of Science in Computer Science (GPA: 3.88 / 4.00)   *Norfolk, Virginia*
- **Relevant Coursework:** Data Structures and Algorithms (C++), Prob & Stat in CS (Python), Intro to CS II (C++), Linear Algebra w/Computational Applications (Python)

Stanley College of engineering and technology for Women   August 2021
Bachelor of Technology in Information Technology(IT) (GPA: 8.27 / 10.00)   *Hyderabad, India*
- **Relevant Coursework:** Data Structures and Algorithms (C++), Prob & Stat in CS (Python), Intro to CS II (C++), Linear Algebra w/Computational Applications (Python)

Experience

Old Dominion University   Jan 2023 – PRESENT
Graduate Teaching and Research Assistant   *Norfolk, Virginia*
- As a Graduate and Research Assistant, I actively participated in various research endeavors, focusing on conducting thorough data analyses to extract valuable insights crucial for project advancement.
- Collaborated on developing algorithms for identifying concurrent transactions and optimizing process management, ensuring seamless operations and enhancing efficiency within dynamic environments.
- I played a pivotal role in collaborating with fellow researchers to develop and implement innovative methodologies, showcasing adeptness in utilizing advanced data science techniques to tackle complex challenges.

ADP   Sept 2021 – Aug 2022
Member Technical   *Hyderabad, India*
- Drafted client proposals and documented interfaces for support teams, employing SQL expertise to create custom statements and ETL solutions with Enterprise Integration Manager. Led unit testing for interfaces.
- Proficient in leveraging agile methodologies within the development life cycle to streamline application development, emphasizing the implementation of CI/CD practices in a microservices architecture.
- Managed US and Canada payroll via Dell Boomi, deploying integrations. (Workforce Integration Manager)

Exposys Lab   May 2021-June 2022
Data Scientist Intern   *Hyderabad, India*
- Conducted data analysis for banking operations, ensuring compliance with regulatory standards and identifying areas for process optimization.
- Implemented troubleshooting techniques to resolve data inconsistencies and streamline reporting processes, enhancing operational efficiency within the banking environment.
- Collaborated with cross-functional teams to develop data-driven solutions, contributing to improved compliance protocols and streamlined banking operations.

Projects

Credit Card Fraud Detection | *Python*

* Developed and implemented machine learning algorithms for credit card fraud detection, utilizing techniques such as anomaly detection and supervised learning to identify and prevent fraudulent transactions effectively.
* Spearheaded initiatives to enhance credit card security by integrating advanced fraud detection features into the payment processing system, resulting in a significant reduction in fraudulent activities and ensuring a secure financial environment for users.

Text To Sign Language | *Python, Django, flask, NLP*

* The project consisted of 3 parts mainly which were making a **web application**, **System which understands text**, **Blender to make general responses**. English Text was given as input and a GIF of the same text in Indian Sign Language was returned as output.

* NLP packages in python are used to analyze text and map them to their respective sign language responses.
* A web application using **Django** framework in python was built which help in communicating with the backend which was wrapped as an **API**.

Hospital Chatbot | *Python, Django, flask, Chatbot, Intent Resolution*

* Developed a hospital chatbot focused on engaging patients by providing support for inquiries related to medical services, appointment scheduling, and general information. Implemented user-friendly interfaces and conversational AI to enhance patient experience and accessibility.
* Integrated the chatbot with the hospital's scheduling system to facilitate seamless appointment management. Users could book, reschedule, or cancel appointments through natural language interactions, and automated reminders improved patient adherence to their medical appointments.
* Ensured the chatbot's capability to retrieve relevant health information, including symptom triage and initial guidance. Implemented AI algorithms to assess user-reported symptoms, offering preliminary advice and directing users to emergency assistance when necessary, contributing to efficient healthcare delivery.

Semantic Textual Similarity | *Python, NLP*

* Executed advanced embedding techniques such as Word Embeddings (e.g., Word2Vec, GloVe) or Sentence Embeddings (e.g., BERT, Universal Sentence Encoder) to represent textual content in a semantic space. This enabled a more nuanced understanding of semantic relationships between words and sentences.
* Developed and integrated machine learning models to measure semantic textual similarity, employing algorithms like Siamese Networks or cosine similarity. These models effectively quantified the similarity between pairs of texts, contributing to tasks such as document clustering, duplicate detection, or question answering systems.
* Conducted thorough evaluation of the semantic textual similarity models using appropriate metrics (e.g., Pearson correlation, Spearman rank correlation). Fine-tuned the models based on evaluation results to enhance accuracy and ensure robust performance across diverse datasets and text domains.

SmartInventoryML | *Docker, Python, Flask,Scikit-learn, TensorFlow, Jenkins*

* Utilized Docker containers to package the web application and ML models, ensuring seamless deployment and scalability across retail locations.
* Integrated ML algorithms to analyze historical sales data and forecast demand, allowing retailers to optimize inventory levels, minimize stockouts, and reduce holding costs.
* Implemented CI/CD pipelines to automate testing and deployment processes, enabling rapid updates and ensuring real-time inventory insights for decision-makers.
* SmartInventoryML empowers retail businesses to make data-driven inventory decisions, ultimately enhancing customer satisfaction by ensuring product availability while minimizing excess inventory.

NeighborShare | *Django, PostgreSQL, MongoDB, Google Maps API, OAuth*

* A community-driven web platform facilitating item-sharing among neighbors, promoting sustainability and fostering local connections.
* Users can easily list items they own but rarely use, enabling neighbors to borrow and return items conveniently, reducing unnecessary consumption and promoting resource efficiency.
* everaging Flask/Django, PostgreSQL, and Google Maps API, NeighborShare offers a seamless experience, enhancing community collaboration and contributing to a more sustainable future.

Technical Skills

Programming Languages: C,C++.Python,Java,R
Technologies: Linux, Apache, Tableau, PowerBI, React.js, Django, Flask, Express.js, TensorFlow, PyTorch, jQuery, Flask, Node.js, SQL, OracleSQL,SAS, Hadoop, SPSS, Scala, AWS,Data Visualisation, neural networks ,Snowflake, Jira ,agile,azure,Visual Studio ,data mining ,Cassandra ,Visual Studio ,data ingestion .
Concepts: NLP, Data Science, Operating System, Artificial Intelligence, Machine Learning, Data Structures and Algorithms, Computer Networks