Pradeep Kumar Gontla

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EDUCATION

- **Golisano College of Computing and Information Sciences at RIT** — New York, USA
  Master of Science - Computer Science; CGPA: 3.67 — *Expected May-2024*
  Courses: *Data Structures, Information Retrieval, Algorithms, Artificial Intelligence, Machine Learning, Web Technologies*
  Big Data Analytics Advanced Certificate; *CGPA: 3.67/4.0* — *May-2023*
  Courses: *Intro to Big data, Database Implementation, Web Services & Service-Oriented Computing*

- **School of Mechanical Engineering at VIT** — Vellore, India
  Bachelor of Technology - Mechanical Engineering; CGPA: 8.58/10 — *Aug 2018*
  Relevant Courses: *Industrial Engineering and Management, Operations Research, Production Planning and Control.*

SKILLS SUMMARY

- **Languages & Databases**: Python, Java, JavaScript, HTML5, CSS3, Hive, HDFS, MongoDB, Simple DB, H2, SQLServer
- **Tools**: MS PowerAutomate, Snowflake, AWS, MS Fabric, VisualStudio, GitHub, PowerBI, Tableau, Spark, Autosys
- **Technologies/Frameworks**: Apache Hadoop, CI/CD (AWS Amplify), Tensorflow, React JS, Flask, Restful, Scrum

PROJECTS

- **Docker Chef**: Developed a full-stack application that leverages **Python and Flask** using **TF-IDF** to provide recipes based on the user's input of ingredients. The platform ranks the recipes in the data set using **cosine similarity** to provide the **top three** results for optimal relevance. **Technologies used: Python, Flask, HTML5, Bootstrap, CSS3**

- **Sign Sense**: Implemented a **LSTM model** with an **89% accuracy** to effectively process lengthy **video sequences**, focusing on interpreting American Sign Language (ASL) actions by leveraging the **MediaPipe** Holistic framework. **Technologies used: Python, Tensorflow, Mediapipe holistic**.

- **Unicorn Rydes**: Deployed a Serverless full-stack application resembling ride-hailing platforms like Uber on AWS, utilizing **AWS Amplify** for CI/CD, **AWS Cognito** for user authentication, while **AWS API Gateway** manages cab reservations, backed with **AWS Lambda** for computation and **DynamoDB** for metadata storage. **Technologies used : HTML5, CSS3,Javascript**

- **Sentiment analysis on research papers**: Performed sentiment analysis on research papers to help researchers with the relevant papers, by ranking the papers based on citations, keywords, and author's impact factor. **Technologies used: Python, MongoDB, Pyscraper, CORE API**

WORK EXPERIENCE

- **Auxiliary Services Tech - RIT**
  Project: RIT Data Hub — *May 2023 - Present*
  Role: Data Scientist Intern

  Enhancing RIT's Automation and Sustainability efforts by integrating Student Housing and Fund Management (Retail Transactional Data) Portals. Creating a centralized data lake for efficient reporting, and enabling data-driven decision-making.

  - Implemented **Real-Time integration** between resident and fund management portals utilizing **REST API calls** eliminating manual intervention in the accounting and meal plan cancellations.
  - Ingested data from Fund and Resident Management portals into the **Microsoft Fabric** Lakehouse utilizing **Azure Data Factory Pipelines**, facilitating data-driven reporting.
  - Developed data-driven business reports in **Power BI** to capture KPIs in residence occupancy, meal consumption, and leftover funds.

- **PRISAM**
  Project: Slicer Development — *May 2023 - Present*
  Role: Graduate Research Assistant

  Development of a non-planar slicer for a multi-nozzle 3D printer.

  - Developed a Python-based slicing algorithm employing **Pyclipper** to tessellate STL files, resulting in **25% enhancement** in the efficiency of 3D printing processes.
  - Designed a contour visualization using **PyQt5** to identify anomalies in the contour, resulting in a significant reduction of filament wastage.

- **e4e Labs Private Limited: American International Group**
  Project: Commercial Data Lake — *September 2020 - November 2021*
  Role: Data Engineer

  Automating the extraction of data from diverse sources and establishing a data lake to streamline data consumption for downstream applications.

  - Extracted the data from diverse sources such as flat files, Oracle, DB2, and MySQL utilizing Apache SQOOP.

- Engineered a data lake house utilizing Hadoop framework within HDFS and Leveraged **Hive** to execute advanced data transformations, significantly **amplifying downstream application functionality**.
- Enhanced project outcomes by actively engaging in **Agile Methodologies** and sprint planning sessions.
- Streamlined deployment process applying knowledge of SDLC in requirement gathering, design, development, UAT, and deployment stages.

- **Alfa Laval India Private Limited**
  Role : Business Intelligence Developer   *August 2018 - June 2020*
  Designing, improving, and automating business reports while managing the execution calendar to deliver timely insights to partners, facilitating informed decision-making.

  - Employed **Microsoft BI and Tableau** to develop **data-driven business reports and dashboards** capturing KPIs in the Supply Chain, Finance, Safety, Operations, Delivery, Quality, and Workforce Planning domains for Alfa Laval's leadership.
  - Analyzed and integrated data from various sources, to support decision-making and critical business processes. Created and managed monthly reporting schedules and documentation.
  - Utilized SSIS and Autosys to automate the refresh of business reports , reducing the manual intervention and efforts by multifold.
  - Interacted with stakeholders to define business needs and solve routine problems ensuring expectations are managed and risks are highlighted.
  - Identified bottlenecks in Equipment maintenance Data within annual contracts through **data analysis** to impact business decision making, leading to **33% enhancement in customer retention rate in 2 years**.

Extra Curricular Activities

- **Outstanding Student Service Award**: Awarded to an international student who has made special contributions to campus life at RIT and the Rochester community.
- **Lead PAL**: Leading a group that takes initiatives to help incoming international students get acclimated to RIT.
- **President - Tigertales Toastmasters**: Led initiatives that helped RIT and Rochester Community in the enhancement of public speaking and leadership abilities.
- **Brick-hack**: Competed in the brick-hack hackathon 2023.

Professional Certification

- Tableau Summer Data Camp Quest - July 2023
- Supervised Machine Learning: Regression and Classification - May 2023
- AWS Cloud Practitioner - March 2023
- Snowflake - Snowpro Core Certification - December 2023
- Certified Scrum Master - December 2022
- Harvard Business School CORE - May 2021
- Six Sigma - White Belt - September 2018

Volunteer Experience

- **Volunteer at RIT Food share**: Worked on eliminating food insecurities amongst the RIT community.
- **Robinhood Army**: Collected the party and restaurant leftovers and distributed them to the needy.
- **Alfa Laval CSR**: Trained the teachers from rural areas to improve the scope of the students.

References available on request