Jagata Venkata Sriram

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Skills Summary

- **Languages**: Python, C/C++, SQL, JAVA, pytorch, HTML, CSS, Appscript
- **Frameworks**: Scikit, NLTK, OpenCV, TensorFlow, Keras, Django
- **Tools**: GIT, MySQL, PostgreSQL, Apache, PrestoSQL, Google cloud console, Google Studio/Tableau, Hive, Kirby, Google sheets/MS Excel, LaTeX
- **Platforms**: Linux, Windows, MacOS
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management, Stakeholder Management

Experience

- **Uber India Research and Development Pvt Ltd** — Visakhapatnam, Andhra Pradesh
  Data Analyst Specialist II — *Aug 2022 - Present*
  - **Appeals Automation**: A scheduled query using prestoSQL that retrieves and updates appeals data in a Google Sheet every day at 7:30 IST, ensuring that the data was always up to date. Several calculations to draw insights from the data to make this system more efficient.
    Appscript that sends an email notification to stakeholders when a new appeal is populated, guaranteeing that if new data became available, all stakeholders were notified promptly and precisely.
    A weekly summary table, which was distributed every Friday SOD to all Uber and ext WIPRO BPO team members. This table provided a comprehensive summary of the appeal data, helping all stakeholders to make informed decisions.
  - **Lower quartile agent analysis**: A scheduled query prestoSQL that retrieves and updates output data in a Google Sheet every day at 7:30 IST using a python script. A prefilled form link is generated for each person in the lower quartile people list.
    Determined the trend and average score of each person across four weeks, placing them into various buckets for training sessions.
    Created an overview dashboard with filters for people and support function groups. This dashboard allowed stakeholders to quickly and easily access the information they needed.
    Developed an automated email reminder that was sent at the end of each week to managers and stakeholders who had not filled out the form generated in the lower quartile tab.
  - **Multiple Automated Dashboards with various filters and pages**: Created multiple automated dashboards with region, manager, agent filters, multiple pages for various requirements. Helped with transitioning of project to JIRA.
  - **Multiple complex queries**: Written multiple sub-queries, nested queries using multiple joins, where clauses from HIVE and Kirby tables using prestoSQL and Google Cloud Platform. Scheduled and automated multiple queries to various output sources.
    Notable queries: 1-star rated trip data with in app tags, bliss ticket links and csat(helped analyzing reasons for 1-star rating.), identification of credit/amount leakage from Uber by Computer Automated Response, and JIRA transition queries for multiple regions.
- **National Institute of Technology** — Tadepalligudem, Andhra Pradesh
  Web Developer (Intern) — *June 2021 - Dec 2021*
  - **Exam Section Website**: Created and deployed three key modules of the website which are backlog and makeup registrations, grade sheet printing and IDs for faculty and course instructors using django and PostGres DB.
  - **Backlog and Makeup registrations**: Course instructor will register students who are eligible. this module contains eligible students list and student's backlog/makeup subjects. Also has summary sheet for course instructor
  - **Grade sheet printing**: Grade sheet template is created as per the govt. and college norms and fills the grade sheet and calculates final SGPA and CGPA.
  - **Created faculty IDs**: Each faculty and year coordinator have unique IDs and different accessibility features.
  - **Database creation**: Created a database using postgres DB and postgreSQL. Created multiple tables, views and materialized views with protection as the data is sensitive.
- **Free Code Camp** — Hyderabad
  Student Developer (Intern) — *May 2018 - July 2018*
  - **Summuraly WebApp**: Summarizes news articles from various sources over the internet.
  - **Web crawler to search for news articles**: Used BeautifulSoup package in python to find news articles using keywords.
  - **Django based framework for application**: Designed frontend and backend modules using django framework and MySQL DB as database.
- **Queless** — Vijayawada
  Front end developer (Part-time) — *Jan 2017 - Mar 2017*
  - **Queless WebApp**: Aims to removes long queues present in movies theatres(for tickets and food).
  - **Front end design**: Created front module of website using HTML5, CSS, Javascript and bootstrap. Created few custom icons and logos.

Projects

- **Deep Image Manipulation- Image-to-Image(I2I) Translation** Sept 2021 - June 2022
  Pytorch, numpy, pandas,torchvision,PIL
  - : Performed image manipulation using two types of models: paired and unpaired I2I translation.
  - : Designed modified version of cycleGAN(unpaired) and Pix2Pix(paired) models from scratch using pytorch.
  - : Modified cycleGAN has over 14 percent improvement over sota model CycleaGAN in terms of accuracy whereas modified pix2pix has over 20 percent improvement over sota model, pix2pix in terms of execution time and 15 percent in terms of error.
  - : Used horse2zebra and vangogh2photo datasets as unpaired data for modified cycleGAN. Used amine colorization dataset as paired data for modified pix2pix. Used albumentations library to augment data to achieve better results.
  - : Changed the normalization method, augmented data and added few skip connections in the generator part of sota pix2pix. Added regularization and weight decay equations to deal with error caused due to cycle consistency problem present in cycleGAN. Added few skip connections and used pretrained weights for modified version of cycleGAN.
- **Rainfall Prediction using different machine learning algorithms** Jan 2019 - May 2019
  numpy, pandas, matplotlib, keras, scikit learn
  - : Performed qualitative analysis using few classification algorithms like Support vector machines(SVM), Artificial Neural Networks, Logistic regression. Dataset used for this classification application is taken from hydrological department of Rajasthan. Overall, we analyze that algorithm which is feasible to be used in order to qualitatively predict rainfall.
  - : ANN was able to yield an accuracy of 87 percent. The other algorithms could reach a maximum accuracy of 86 percent. If we consider extremely large datasets, that 1 percent can make quite the difference in forecasting.
  - : Code was implemented using keras and plotted graphs using matplotlib.
- **Face Recognition App for attendance** Jan 2021 - May 2021
  opencv, numpy, pandas, tkinter, PIL
  - : Created a face recognition app which can be used to note attendance of students.
  - : Takes student details initially and student images to train the model using opencv library. For the GUI I have used tkinter library.
  - : When a student sits in front of the camera, it adds the student to the attendance excel sheet. This excel sheet is named using subject name, subject code, day and month.

Education

- **National Institute of Technology** Andhra Pradesh, AP
  Master of Science in Computer Science and Data Analytics; GPA: 7.62 *Aug. 2020 – Jun. 2022*
- **Koneru Lakshmaiah University** Andhra Pradesh, India
  Bachelor of Engineering in Computer Science and Engineering; GPA: 8.14 *Aug. 2015 – May. 2019*

Publications

- **International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-7, May, 2019**: Rainfall prediction using Machine Learning Techniques. Paper ID: G5295058719
- **Conference paper: CVIP 2022**: Deep Image Manipulation: Image-to-Image Translation(paper accepted)

Honors and Awards

- Topped district twice (2010,11) in National Science Olympiad (NSO)
- Achieved top 90 percentile in GATE 2020
- Received 90% scholarship via FTRE(FIITJEE Talent Reward Exam)
- Winner of KLU Inter Morale football trophy (represented cse department).
- Two-time winner of LAN gaming (Game: Dota2) conducted during our department fest.
- Winner of code puzzle conducted during our department fest.

Leadership/Extra Curricular

- Co-Coordinator of designing team of our college fest Samyak 2k16.
- Coordinator of designing team of our college fest Samyak 2k17.
- Core member of our department club.

Teaching Experience

Worked as teaching assistant for the following courses: NIT Andhra Pradesh
Teaching and grading

- **Computer Networks Lab**: Jan - May 2021
- **Security Lab**: Aug - Dec 2021
- **Object Oriented Programming Lab**: Jan - May 2022
- **Machine Learning Lab**: Jan - May 2022

Relevant certificate courses

- Natural Language Processing (nptel)
- Deep Learning with elite certificate (nptel)
- Fundamentals of deep learning (Nvidia)
- CCNA Routing and Switching: Introduction to Networks(Cisco)
- Introduction to Data Studio(Google)