PRATEESH REDDY PATLOLLA

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EDUCATION

Indiana University Bloomington, ***GPA: 4/4***
Bloomington, IN, US
Master Of Science in Data Science — Jan 2021 – present
Course Work: Machine Learning, Elements of Artificial Intelligence, Applied Algorithms, Big Data Management, Deep Learning systems, Statistics

Gandhi Institute of Technology and Management University ***GPA: 8.12/10***
Hyderabad, India
Bachelor of Technology in Computer Science and Engineering — July 2016 – April 2020
Relevant Course Work: C, C++, Java, Python, Linear Algebra, Statistics, Data Structures and Algorithms, Data Mining, Machine Learning, Artificial Intelligence, Software Engineering

WORK EXPERIENCE & INTERNSHIPS

Research Data Analyst, Indiana University **Bloomington, IN, US**
Technologies: Python, R, Tableau, Oracle SQL. — Jan 2021 – Present
- Developed data pipelines and Tableau reports for providing insights in student performance, retention and graduation distribution. This is now being used in making key decisions like approving pre-requisite course waivers and has changed 4 courses prerequisite status in Indiana University curriculum
- To append PhD students' life cycle data UX dashboard's as public facing on Indiana University website.

Summer Intern, Eli Lilly and company **Indianapolis, IN**
Technologies: Python, Natural Language Processing, Web Scrapping — May 2021 – June 2021
- Provided Cognitive search capability to medical agency search against database like FDA and EMA via natural language question and return relevant results to help with accelerating regulatory submissions for Eli Lilly.
- Performed abstraction based Natural language generation methods like T5 Transformer, GPT- 2 Algorithm and BART Transformer.

Data Science Intern, CYIENT limited **Hyderabad, India**
Technologies: Python, Transfer learning, PCA, Data Augmentation — Dec 2019 – Mar 2020
- Extracted road sign boards through object detection from terrestrial imagery to minimize manual efforts of data annotation for North American based client.
- Achieved aimed hit rate of 92% which resulted in a saving of 12 FTEs.

SKILLS

- **Programming:** Java, Python, R, SQL, JavaScript, C++, C, SQL
- **Web:** Flask, Django, React JS, HTML, CSS, REST, Microservices
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Cloud Distributing Services:** Amazon Web Services (AWS)
- **Tools:** Tableau, Linux, Git, Docker
- **Libraries:** Pandas, NumPy, Scikit-Learn, keras, TensorFlow, Pytorch, NLTK, Transformers, Matplotlib, Seaborn

ACADEMIC PROJECTS

Face Generative Adversarial Networks (GANs):
- This project solves the issue of misclassification even for the popular models by the ability to generate millions of relevant image data. The uniqueness of this project lies on generating any required style of data using Neural Style Transfers and GAN.

MERN Stack Social Media Application:
- This Application uses React and Redux for the Front End and Node.js, Express.js and MongoDB for the Back End.
- It is a social media app that allows users to post interesting events that happened in their lives.

Traffic Signboard Classifier:
- Standard computer vision methods used to detect and classify traffic signs take considerable and time-consuming manual work to handcraft important features in images.
- Instead this process could be automated by applying Tensorflow Data pipelines to reliably classify traffic signs.

Blockchain Financial Transaction System:
- This project is an effort to give bank the ability to access a single source of information and also allows them to track all documentation and validate ownership of assets digitally, as an unalterable ledger in real time

PUBLICATIONS & LEADERSHIP EXPERIENCE

- Published a research paper on Protecting banking Transactions using 'Blockchain Technology without tokens' in International Journal on Emerging technologies ISSN No. 0975-8364
- Given a GUEST LECTURE on TABLEAU technology along with NORIKO HARA Z637: Information Visualization on March 2021.
- Luddy Ambassador for School of Informatics & computing, Indiana University (2021 - present) organize and setup sessions with more than 100 graduate students help them connect with required department and answer their queries.
- President of Public Relations for local Student Chapter of Kalakrithi (2017) and organized key events on campus like TEDx, inter-college MUNs.