

PRATEESH REDDY PATLOLLA

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EDUCATION

Indiana University Bloomington, Bloomington, IN, US	GPA: 4/4
Master Of Science in Data Science	Jan 2021 – Dec 2022
<i>Course Work: Machine Learning, Advance Database Concepts, Elements of Artificial Intelligence, Deep Learning systems, Data Mining, Applied Algorithms, Big Data Management, Statistics</i>	

Gandhi Institute of Technology and Management University Hyderabad, India	GPA: 3.8/4
Bachelor of Technology in Computer Science and Engineering	July 2016 – April 2020
<i>Relevant Course Work: C, C++, Java, Python, Linear Algebra, Statistics, Data Structures and Algorithms, Data Mining, Machine Learning, Artificial Intelligence, Software Engineering</i>	

WORK EXPERIENCE & INTERNSHIPS

Data Scientist Intern, Alexa AI Amazon	Santa Barbara, CA
Technologies: Pyspark, Python, AWS Quicksight, AWS EMR	May 2022 – August 2022
<ul style="list-style-type: none">Low frequency Alexa questions had higher confidence interval / margin of error. Performed Stratified sampling using various distributions and compared them. The result led to the start of changing the way the data is stored in Alexa tables.Performed the Re-training for QA categorizer model with improved accuracy which is the machine learning model which categorizes Alexa questions into various sub categories like Weather, Knowledge, Skills.Created a dashboard for Alexa successful answering metric which is now being used in Alexa wide weekly webinar to discuss the Overall performance.	

Research Data Analyst, Indiana University	Bloomington, IN, US
Technologies: Python, R, Tableau, SQL.	Jan 2021 – Present
<ul style="list-style-type: none">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 curriculumDeveloped reports on PhD students' life cycle data from enrollments to time to degree to outcomes in two versions full access and restricted for Internal decision support and public facing on Indiana University grad school website.	

Data Science Intern, CYIENT limited	Hyderabad, India
Technologies: Python, Transfer learning, PCA, Data Augmentation	Dec 2019 – Mar 2020
<ul style="list-style-type: none">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

<ul style="list-style-type: none">Programming: Java, Python, R, SQL, Pyspark, JavaScript, C++, C, SQLWeb: Flask, Django, React JS, HTML, CSS, REST, MicroservicesDatabases: MongoDB, MySQL, PostgreSQLCloud Distributing Services: Amazon Web Services (AWS), DevOpsTools: Tableau, Linux, Git, Docker/kubernetes	
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ACADEMIC PROJECTS

Cognitive Search Engine by NLP:
<ul style="list-style-type: none">Provided Cognitive search capability for Eli Lilly and company to 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.
Face Generative Adversarial Networks (GANs):
<ul style="list-style-type: none">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:
<ul style="list-style-type: none">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:
<ul style="list-style-type: none">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.

PUBLICATIONS & LEADERSHIP EXPERIENCE

<ul style="list-style-type: none">Published a research paper on Protecting banking Transactions using 'Blockchain Technology without tokens' in International Journal on Emerging technologies ISSN No. 0975-8364Given a GUEST LECTURE on TABLEAU technology along with NORIKO HARA Z637: Information Visualization on March 2021.Graduate Ambassador for Indiana University (2021 - present) organize sessions with students help them connect with required department and answer their queries. Received Luddy Outstanding Leadership Award for 2022	
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