

Chedvihas Punnam

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EDUCATION

Arizona State University

CGPA 4, Master of Science in Computer Software Engineering

Tempe, AZ

Aug. 2022 – May 2024

IIT Bhilai

CGPA 7, Bachelor of Technology in Computer Science and Engineering

Bhilai, India

July. 2017 – May 2021

EXPERIENCE

Data Engineer

July 2021 – April 2022

Larsen & Toubro Infotech

India, Bangalore

- Designed & implemented an end-to-end solution using Power BI for processing unstructured customer feedback data, reducing the number of support tickets by 20%.
- Analyzed data to identify the root cause of billing inaccuracies, partnering with cross-functional teams to design and improve accuracy by 27%.
- Performed ETL operations on customer data to design new marketing campaigns that improved customer acquisitions, engagement and management using SQL, Python, and AWS, resulting in increasing customer engagement by 10%.
- Reduced workflow implementation time 50% by implementing and scheduling data engineering workflows using Airflow in Python.
- Designed and maintained 40+ Airflow DAGs that ran daily jobs across different databases including MySQL, MongoDB, and Cassandra, resulting in increased efficiency by 25%.
- Created data visualization dashboards in Tableau to track KPIs for the entire company, resulting in decreasing time spent on data analysis by 20%.

Data Science Intern

May 2019 – July 2019

Innomatics Research Labs.

Hyderabad, India

- Built a chatbot using a deep learning based sequence-to-sequence model(NLP), reduced response time to 50% compared to rule-based chatbots.
- Created a facial keypoint recognition model using a convolutional neural network (CNN), and achieved a mean squared error (MSE) of 5.0 on keypoint localization.
- Developed email spam detection using Random Forest Regression, achieved 90% precision and 95% recall on a 10,000 email dataset, enhancing security and user experience.

PROJECTS

Keywords Prediction | NLP, NLTK, Scikit-learn, Pandas, Scrapy, MongoDB, Github Actions

Aug 2022 – Dec 2022

- Developed an automated Scrapy-based Python script integrated with GitHub Actions to scrape tech-related blog posts from over 1100 distinct websites, with a daily scheduled task.
- Designed and implemented an efficient database schema, incorporating indexing and partitioning techniques for optimized data storage, and utilized Natural Language Processing to predict keywords from blog content.

IPL Data Analysis and Prediction | Python, TensorFlow, Matplotlib, Django, Heroku

Oct 2020 – Dec 2020

- Conducted web scraping of cricket match data, performed data cleaning, and conducted in-depth analysis to identify key performance indicators.
- Developed a predictive model in Python that calculates scores and winning probabilities based on real-time match situations, resulting in improved accuracy compared to previous models. Additionally, created a user-friendly web application using the Django framework for easy access and interaction with the predictions.

Expense Tracker | MongoDB, Express.js, React.js, Node.js

June 2020 – Aug 2020

- Designed and developed a cloud-based web application to track personal income and expenses.
- Designed a MongoDB schema to store data and generate insightful reports and graphs on weekly and monthly timelines.
- Automated the process of adding new transactions from transaction alert emails using Gmail APIs, resulting in a 40% increase in transaction tracking accuracy and a 50% reduction in manual data entry.

Image Captioning | Computer Vision, Python, OpenCV, TensorFlow, Keras, NLTK

May 2020 – June 2020

- Developed an image captioning system achieving an accuracy of over 85% in generating contextually relevant image captions.
- Processed and augmented a dataset of 50,000 images, improving model performance by 20% through data augmentation.
- Leveraged NLTK for natural language processing, enhancing caption readability and coherence, resulting in a 15% increase in user satisfaction.

TECHNICAL SKILLS

Languages: Python, SQL, Postgres, Bash, C#, C++, Java, JavaScript, HTML, CSS

Frameworks: Power BI, AWS (EC2, S3, Redshift, EMR), Hadoop, Snowflake, ServiceNow (ITSM), Git, JIRA, Excel

Strengths: Data Science, NLP, Data Analysis, Data Engineering, ETL design, Big Data, Agile, Scrum, Sprint.