Deepa Shree Chickballapur Venkatachalapathi

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EDUCATION

University of Wisconsin-Madison　　　　　　　　　　　　　　　　　　　　Madison, WI
Master of Science in Data Science　　　　　　　　　　　　　　　　　　　　December 2025
- **Coursework**: Statistics, Machine Learning, Natural Language Processing, Database Topics, Optimization

PES University　　　　　　　　　　　　　　　　　　　　　　　　　　　Bengaluru, India
Bachelor of Technology in Computer Science and Engineering　　　　　　　　　　　May 2023
- **CGPA**: 9.23/10.00, **Coursework**: Machine Intelligence, Big Data, Data Analytics, Information Retrieval

TECHNICAL SKILLS

Programming Languages: Python, JavaScript *(Proficient)* ; Java, C/C++ *(Intermediate)* ; R, Golang *(Moderate)*
Database Technologies: Postgres, MySQL MongoDB, Redis, Elasticsearch
Data Analysis: Pyspark, Hadoop, Kafka, Tabelau, PowerBI
Machine Learning : Tensorflow, Keras, Pytorch, HuggingFace, NLTK, scikit-learn, pandas, numpy
Cloud and Web Development: Docker, Kubernetes, AWS, PySpark, React.js, Yarn, FastAPI, Streamlit, Flask
Version Control, Testing and Automation: Git, JUnit, pytest, Github Workflow

EXPERIENCE

Cloud Developer - I　　　　　　　　　　　　　　　　　　　　　　　Aug 2023 – Present
Hewlett Packard Enterprise　　　　　　　　　　　　　　　　　　　　　Bengaluru, India
- **Worked on UI** for Carbon Footprint Reports Visuals, Server Onboarding and Location Configuration on HPE GreenLake ComputeOps Management using React.js.
- **Reduced latency by almost 90%** by automating unknown errors logging with Github Workflow.
- **Increased code coverage over 85%** by introducing test cases using pytest, unittest.
- Working on converting natural language to SQL for easier access of CMF (MLOps library by HPE) using Pytorch.

Research and Development Intern　　　　　　　　　　　　　　　　　Jan 2023 – July 2023
Hewlett Packard Enterprise　　　　　　　　　　　　　　　　　　　　　Bengaluru, India
- **Developed JUnit test suites** for HPE OneView's Download Service, **automated execution** via Jenkins.
- **Reduced triage time by almost 80%** by introducing a log parser for HPE OneView health logs present on SFTP servers using Python and NLP techniques.

Technical Consultant Intern　　　　　　　　　　　　　　　　　　　May 2022 – Aug 2022
Adobe　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Bengaluru, India
- Enhanced user engagement of Adobe Analytics XDM clickstream data using MySQL and PowerBI.
- **Achieved over 90% accuracy** predicting purchase propensity with sklearn; drove incremental learning through deployment on Adobe AEP.
- **Headed development** of the interns' project showcase portal as one of the three project managers.

PROJECTS

Catalog Indexing Engine | *Python, Kafka, ElasticSearch, Tensorflow, PostgreSQL, Docker, Flask*　Dec 2023 – Feb 2024
- Containerized application which supports both structured and unstructured queries to retrieve data and ensure product relevancy in results.

Kinship Recognition | *Python, Tensorflow*　　　　　　　　　　　　　　Feb 2022 – Apr 2022
- This project aimed to analyze whether two people are related by blood or not through their facial pictures using Siamese Networks.

Student Attrition Prevention | *Python, sklearn, matplotlib, pandas, numpy*　　　Sept 2021 – Nov 2021
- Developed ensemble models to predict assessment marks in online courses to identify students at risk.

PUBLICATIONS

- **Prediction of Code Runtime Complexity using Machine Learning Techniques** – *Emerging Research in Computing, Information, Communication and Applications, ERCICA – 2023*

- **Data-Efficient Training for Effective Paraphrase Retrieval Techniques Using Language Models to Identify Research Gaps** – *International Conference on Computing and Machine Learning – 2024 (Accepted)*