# 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

**San Francisco Crime Classification** | *Python, Pyspark, sklearn*                                 Oct 2022 – Dec 2024
- Stream data with Pyspark and perform incremental classification and clustering to determine crime type out of the 39 categories

**Student Attrition Prevention** | *Python, sklearn, matplotlib, pandas, numpy*                     Oct 2022 – Dec 2024
- 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)*