PRIYANKA LAKUR KRISHNAMURTHY

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EDUCATION

M.S. Computer Science — **Expected May 2024**
The University of Texas at Arlington — **CGPA 3.89**

Bachelor of Engineering in Computer Science — **2018-2022**
BNM Institute of Technology, Bangalore, India — **CGPA: 3.58**

RELATED COURSEWORK

Programming in Java, C/C++, Python, Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Natural Language Processing, Operating Systems, Advanced Software Engineering, Unix Programming, Operating Systems, Networks, Distributed Systems, Data Analysis and Modelling Techniques, Software Testing.

TECHNICAL SKILLS

Languages	Python, Java, C/C++.
Databases	SQL(Relational Database).
Web Development	HTML5, CSS, PHP, React
Data Science	Data Analysis, Visualization, and Modeling using NumPy, Matplotlib, Seaborn, Sckit-Learn.
Tools	Eclipse, Microsoft Visual Studio, Android Studio, Jupyter, Xcode, JUnit, Wireshark, Figma.

WORK EXPERIENCE

Software Engineer Intern, Aspen Technology, Houston, United States

- Implemented a proof of concept (POC) prototype for an early warning system, achieving a 10% reduction in off-spec production and demonstrated its success through precise alerts for process health, contributing to continuous optimization.
- Engineered a proactive Machine Learning optimization algorithm, by integrating Artificial Intelligence capabilities to enable continuous optimization of operations and providing actionable insights to address potential issues before impacting production KPIs.
- Integrated and tested the prototype built using PyQt5, providing valuable insights into variability issues in process manufacturing and offering guidance to users for appropriate process adjustments.
- Earned recognition for the prototype's capability in elevating business value of the product.
- Technology Used: Jupyter, Python, NumPy, Pandas, Seaborn, PyQt5.

Data Science Intern, Sparks Foundation, Bangalore, India

- Gained experience in building and tuning machine learning models. Expertise in data collection, analysis, and visualization through coding in Python.
- Technology Used: Jupyter, Python.

PROJECTS

Recommendation System Using Deep Learning

- Developed a novel recommendation system utilizing Deep Learning models, including Deep Neural Networks, Restricted Boltzmann Machines, and Auto Encoders. Demonstrated that the Deep Neural Network model outperforms many baseline models through extensive trials and analysis.
- Technology Used: Jupyter, Python, Keras, TensorFlow.

Restaurant Database Management System

- Built a database to computerize information regarding the customers and orders. Created A Database Management System to enable Restaurant to effectively store and retrieve data and generate reports on customers, food items, staff and billing details.
- Technology Used: SQL, PHP, XAMPP, HTML, CSS, JavaScript.

Hybrid Deep Learning Based Sentiment Analysis

- Implemented sentiment analysis with CNN-LSTM and CNN-LSTM-Transformer, using Word2Vec and fastText on diverse datasets. Word2Vec excelled in CNN-LSTM, while FastText was optimal for CNN-LSTM-Transformer.
- Technology Used: Jupyter, Python, Keras, TensorFlow, PyTorch, NumPy, Pandas, Seaborn.

CERTIFICATION

- AWS Technical Essentials and Architecting Course.
  Certificate ID: TSOZGMAT [Validate at https://ethnus.com/certverify]
- Fundamentals of Linux and Data Analytics - Vodafone India Association.

PUBLICATION

- “Recommendation System Using Deep Learning”, IEEE 7th International Conference on Recent Advances and Innovations in Engineering (ICRAIE), Volume: 07