Rahul Jauhari

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EXPERIENCE

Software Developer Engineer

AMD,India **Jan 2024 - Present, Banglore, India**

- Enhanced AMD EPYC CPU AI inferencing capabilities by 5% through targeted TensorFlow and ONNX optimizations, enabling faster, real-time model execution across critical applications.
- Collaborated on the development of zenTF, a custom TensorFlow plugin, delivering kernel optimizations, fusions, and INT8 support that significantly improved inference workload performance.

Back End Developer

Sypto **Mar 2023 - Jul 2023, Pune, Maharashtra**

- Optimized Sypto's stock selection app, reducing execution time by 30% and enhancing real-time decision-making and user experience.
- Increased data retrieval speed by 50% and improved user satisfaction by integrating a PostgreSQL database for real-time access.

ROBOTIC PROCESS AUTOMATION DEVELOPER

SILVER TOUCH TECHNOLOGIES LIMITED **Jun 2022 - Jul 2022, Ahmedabad, Gujarat**

- Automated invoice processing by implementing solutions in Automation Anywhere, reducing manual processing time and enhancing operational efficiency.
- Succeeded in integrating multiple applications and achieving a 95% automation rate.

RESEARCH

Deep learning algorithms and their fuzzy extensions for streamflow prediction in climate change framework **Feb 2024**
Rishith Kumar Vogeti, **Rahul Jauhari**, Bhavesh Rahul Mishra, K Srinivasa Raju, D Nagesh Kumar
DOI: https://doi.org/10.2166/wcc.2024.594

Boosting algorithms for projecting streamflow in the Lower Godavari Basin for different climate change scenarios **Jan 2024**
Bhavesh Rahul Mishra, Rishith Kumar Vogeti, **Rahul Jauhari**, K Srinivasa Raju, D Nagesh Kumar
DOI: https://doi.org/10.2166/wst.2024.011

EDUCATION

Bachelors in Computer Science

Birla Institute of Technology & Science Pilani, Hyderabad Campus • Hyderabad 2024
CGPA:- 8.0

PROJECTS

Retrieval augmentation generation Enhanced Text Generation and Knowledge Retrieval **Mar 2024-Apr 2024**

- Designed and implemented a RAG-based chatbot using Llama2 and ChromaDB, accelerating developer access to critical documentation and reducing information retrieval time.
- **Developed a framework** to detect and prevent **duplicate bug reports in Jira**, improving **issue tracking efficiency, streamlining workflows and accelerating bug resolution**.

Machine learning Model to predict Rainfall Runoff **Jan 2023 - Jul 2023**

- Under the supervision of Prof. K. Srinivasa Raju, developed a **Tensorflow-based Fuzzy LSTM, Fuzzy CNN, and Fuzzy CNN-LSTM** model for predicting runoff data from Lower Godavari Basin; achieved 86% runoff prediction rate with improved accuracy.
- Utilized **neptune.ai** to fine tune machine learning models achieving 30% increase in accuracy as compared to conventional models.

Trading Bot **Jan 2022 - Aug 2022**

- Developed and deployed a Python trading bot on Binance, reducing manual intervention and increasing profitability by 20% through automated decision-making in a volatile market.
- Enhanced trading bot efficiency by optimizing order execution, implementing precise position monitoring, and introducing robust risk management strategies.

Regular Expression Compiler for String Recognition **Feb 2023 - Apr 2023**

- Engineered a C compiler that translated regular expressions into Deterministic Finite Automaton, optimizing text processing performance by 70% and reducing time spent on pattern matching by 50%.
- Collaborated with team members to optimize the performance of the script, achieving efficient processing of large regular expressions and strings while maintaining low memory consumption.

CERTIFICATES

Generative AI with Large Language Models **Nov 2024**

- Gained foundational understanding and practical knowledge of generative AI, including its underlying principles and latest research on its application in creating business value
- Skills learnt and Tools Used: Model Building, Fine Tuning, PEFT (LoRA), AWS Sagemake.

Applying AI Technologies to the Workplace from NorthEastern University **Sept 2024**

- Explored AI capabilities and risks for making informed decisions on AI use in workplace settings, focusing on efficiency and strategic innovation.
- Assessed AI adoption across public and private sectors, identifying limitations and ethical considerations critical to responsible implementation.
- Skills learnt: Ethical Standards And Conduct, Decision Making, Problem Solving, Artificial Intelligence, Innovation

SKILLS

Backend: Tensorflow, ONNXRuntime, Machine Learning, C++, Generative AI, Data Science, Data Processing , Python , C, Git, Github, Pytorch

Languages: English , Hindi