Pavan Kumar Nuthi

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Education

PES University **December 2020 – June 2024**
Bachelor of technology in Computer Science and Engineering; ***CGPA: 9.43 / 10.0*** *Bengaluru, India*

Narayana PU College **2018 – 2020**
11th and 12th grade, Physics, Chemistry, Maths and Computer Science. ***12th Percentage 90%*** *Bengaluru, India*

Narayana School **2018**
Grade X, CBSE Board. ***88.8%*** *Bengaluru, India*

Technical Skills

Languages: C++, C, Python, Java, JavaScript, TypeScript, Arduino, Perl
Frameworks/Libraries: React, Node.js, Pandas, Numpy, Matplotlib, Docker, Springboot, Streamlit, Socket, Kubernetes, AWS, Azure, GCP, Elasticsearch, Jenkins
Databases: SQL, MongoDB, Neo4J
Developer Tools: VS Code
Technologies: Linux, Git ,Kafka, Spark

Experience

Sprinklr **August 2024 – Present**
Associate Devops Engineer *Bengaluru, India*

- Deployed and maintained infrastructure for Elasticsearch servers.
- Involved in the improving the python scripts and procedures for the setup of disaster recovery environments.

Sprinklr **January 2024 – June 2024**
Devops Intern *Bengaluru, India*

- Created and implemented disaster recovery setup that increased the production environment's fault tolerance by more than 90 percent.
- Involved in designing and creating resiliency scripts for monitoring resources deployed on Elasticsearch.
- Refactored legacy code written in perl to python.

PES University **August 2023 – December 2023**
Teaching Assistant-DBMS Course(UE21CS351A) *Bengaluru, India*

- Assisted in the creation of new course material from scratch based on the concepts from the textbook "Database System Concepts" and variety of online resources.
- Developed practical and challenging course assignments on a weekly basis throughout the semester.

Publications

Multi-Modal Video Summarization using Attention based Transformers(MVSAT) | *Python*

- The frames are used to extract visual features, and captions are then generated by describing the frames. This provides an extra input modality, offering more context to the video contents.
- A variety of feature extraction techniques were evaluated for both textual and visual inputs and were employed as transformer model input.
- Outperformed state-of-the-art methods currently in use by over 3 percent for video summarisation on the SumMe dataset and nearly 2 percent for the TVSum dataset.

Selected Projects

Mini Kafka | *Python,Socket*

- Facilitating communication through Socket Programming for message transmission between producers and brokers.
- In this devised implementation, topics serve as meticulously organized directories, while partitions are thoughtfully structured as subdirectories nested within. Within these partitions, messages generated by producers are stored as individual text files, ensuring an organized and efficient storage mechanism.
- The data is served from files stored within topics from the file system, and users can conveniently subscribe to multiple topics.

Real Time Crypto Currency Application | *Spark,Kafka,Node.js,Typescript,Tailwind css*

- Established a connection with the Coinbase API to get real-time insights into cryptocurrency prices like Bitcoin, Dogecoin, and Litecoin.
- Spark framework is used for real-time analysis of this data stream, channeling it into a SQL database for future batch processing.
- The processed dataset is then sent to a node.js-based server with Kafka integration. This process results in data delivery to a frontend interface created with TypeScript. This interface simplifies raw data into graphical representations for users to understand the data better.

Car Rental System | *Streamlit, MySql*

- Designed and built user interfaces that handle both data retrieval and manipulation tasks. These interfaces smoothly integrate SQL query execution right from the front-end, making it easy to work with different tables.
- Created a strong back-end system that ensures a user-friendly experience for securing car rentals with ease..
- The project focuses on the core principles of Database Management Systems (DBMS), including the careful implementation of triggers and functions. This adherence to fundamental DBMS concepts improves overall performance.

Achievements

Bugs and Bytes Hackathon 2022 **15th October 2022**

Country Level Hackathon *PES University*

∗ Given a dataset containing automobile data, the problem statement was to identify and flag phoney license plates.
∗ Placed third in the hackathon.
∗ Sponsored by Risckcovry.