SAILAVANYA NARTHU

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Linkedin | Github | Portfolio

SUMMARY

Illinois Tech graduate student specializing in comprehensive Software Engineering, deeply passionate about leveraging Big Data Technologies, Software Project Management, and Machine Learning. Actively Seeking 2024 Co-op and Full-time opportunities to apply and further develop my expertise in these domains.

EDUCATION

Illinois Institute of Technology, Chicago, IL **August 2022 - Present**

Master's in Computer Science

- **Courses:** Machine Learning, Computer Networks,Science of programming, Advanced Database Organization, Big Data Technologies, Software Project management, Software Engineering.

Anil Neerukonda Institute of Technology and Sciences, Visakhapatnam, India **June 2017 - May 2021**

B.Tech. in Information Technology

- **Courses:** Operating Systems, Theory of Computation, Design Analysis & Algorithms, Data Structures, Artificial Intelligence,Software Testing, Unix,Web Technologies.

SKILLS

- **Languages:** Java, Python, C , JavaScript, C++, HTML, CSS
- **Big Data & Machine Learning:** Apache Spark, Hadoop Ecosystem, Tableau,TensorFlow, Hive, Pig, Kafka
- **Databases & Frameworks:** SQL, PLSQL, MYSQL,Oracle, NumPy, Pandas, OpenCV,Microservices
- **Cloud Technologies & Tools:** AWS technologies, Azure, Git, Jira, Agile, SDLC

PROFESSIONAL EXPERIENCE

Tata Consultancy Services, Hyderabad, India

Software Developer **July 2021 – July 2022**

- Developed a web application for a prominent banking project using cutting-edge technologies, such as **Java**, and ensured seamless integration with databases like **SQL** and **PL/SQL** to optimize data retrieval and storage.Worked on the loan portal of the aforementioned project, streamlining customer access to cash at highly competitive rates, thus enhancing user experience and fostering customer satisfaction.
- Swiftly resolved critical production issues with agility, providing real-time solutions to maintain a defect-free application and minimize business disruptions. Collaborated closely with a diverse team of software engineers, database administrators, and **UX** designers to create a robust and user-friendly application.
- Implemented tailored enhancements to meet specific client needs and align the application with evolving business requirements. Proactively addressed client requests, resulting in a **15% increase** in customer retention and a **10% boost** in upselling revenue, demonstrating a track record of impactful projects.

Software Developer Intern **January 2021 – May 2021**

- Proficiently managed critical production data through meticulous design and execution of intricate **SQL** queries, fortifying the foundation of a robust and dependable database system. Instrumental in seamlessly migrating data from **Collibra** to the **ADS** tool, enhancing data integration and accessibility, leveraging expertise in **PL/SQL** and **MySQL** technologies.
- Collaborated with cross-functional teams to establish and uphold data standards, achieving a **25% reduction** in data errors, minimizing operational disruptions, and improving overall data reliability. Implemented proactive data quality measures resulting in a **30% decrease** in storage costs, bolstering operational efficiency and compliance with regulatory requirements.

Hebeon Technologies Hyderabad, India

Python Developer Intern **August 2020 – December 2020**

- Successfully developed and implemented a machine learning model aimed at predicting employee salaries based on their experience levels. Leveraged a regression algorithm, applying a data-driven approach to provide accurate and meaningful predictions. This project demonstrated an ability to bridge the gap between data science and business objectives.
- Utilized advanced regression algorithms to build the predictive model, including but not limited to Linear Regression, Decision Trees, and Random Forests. This required a deep understanding of statistical methods and the ability to fine-tune the models for optimal performance.
- Demonstrated expertise in machine learning and data science, including proficiency in **Python**, and **Jupyter** for model development.

PROJECTS

Image Detection of roads using computer vision *[Python, Computervision, CNN, OpenCV,TensorFlow,Edge Detection]* **May 2021**

- Developed a robust image classifier based on image processing and road detection in self-driving vehicles to identify accidents happening using self-driving cars. Aimed to develop a system that could detect and avoid accidents involving self-driving cars using modern image processing techniques and road identification algorithms. The main goal of the research was to significantly decrease the amount of accidents caused by self-driving vehicles by proactively identifying potential road risks.

Online blood donation management *[Java, CSS, HTML,,UX design,OOAD models]* **April 2020**

- Designed and developed a web application to manage blood donation using an online management system. This project was designed to simplify the complex process of tracking and searching for blood donors, resulting in a smooth and efficient donor management experience. The system thoroughly kept essential data connected to blood donors, such as their blood type, contact details, and donation history, with a focus on convenience of use and accessibility.

Traffic Flow Analysis in Different Weather Conditions *[Python,Tableau,GIS,Data Visualization,DBMS]* **November 2022**

- The primary goal is to analyze and forecast traffic using the provided data, by using the sensors and traffic monitoring system to account for more traffic circumstances.This project contains a review of various traffic situations in order to develop an in-depth knowledge of traffic flow dynamics. This project predicts and plans for a wide range of traffic conditions by using sensor data and real-time monitoring technologies.

CERTIFICATIONS:

- Completed "**Introduction to Artificial Intelligence**" course – **Linkedin Learning** **October 2023**
- "**Python for Everybody**" and "**Python Data Structures**" – **COURSERA**
- NPTEL – Problem solving through C. **October 2019**