

SILAVANYA 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 looking for 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, R, HTML, CSS
- **Big Data & Machine Learning:** Apache Spark, Hadoop Ecosystem, Hive, Pig, Kafka
- **Databases & Frameworks:** SQL, PLSQL, MYSQL
- **Data Analysis & CV Tools:** Numpy, Pandas, Open CV
- **Cloud Technologies & Tools:** AWS technologies, Azure, Git, Jira, Agile, SDLC

PROFESSIONAL EXPERIENCE

Tata Consultancy Services, Hyderabad, India

Software Developer

July 2021 – July 2022

- Developed and maintained software applications for banking operations, encompassing transaction processing, customer account management, and risk assessment. Designed and executed software solutions using Java, and SQL, ensuring compliance with coding standards and best practices.
- Collaborated with product managers, business analysts, and stakeholders to collect requirements and convert them into technical specifications. Engaged in code reviews, pinpointed areas for refinement, and executed enhancements to enhance performance and maintainability.
- 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.

Hebeon Technologies Hyderabad, India

Python Developer Intern

July 2020 – August 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, 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, 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
- **Microsoft Certified: Azure Fundamentals**
- **Internet of Things(IOT) – Coursera**

CO-CURRICULAR ACTIVITIES:

- Presented a paper on Blue Brain in Radian 2k19.
- Volunteered as a cultural coordinator during college fest.
- "Participated in an Artificial Intelligence workshop at IIT Bombay."