

Sindhu Varshini Pamidimukkala

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EDUCATION

California State University, Long Beach

Long Beach, CA, USA

Aug 2022 – May 2024

Master of Science in Computer Science

GPA – 3.22 /4.0

Coursework: Advanced Analysis of Algorithms, Advanced Programming Languages, Advanced Software Engineering, Computer Architecture, Artificial Intelligence, Pattern Recognition, Software Maintenance and Reusability, Object Oriented Analysis and Design, Natural Language Processing, Topics Distributed Computing.

SRM University, AP

Mangalagiri, AP, India

Jul 2018 - Aug 2022

Bachelor of Engineering in Computer Science

GPA – 3.55/4.0

Coursework: Artificial Intelligence, Introduction to Machine Learning, Data Structures and Algorithms Using C, Design and Analysis of Algorithms, Web Technology, Data and Web Mining, Software Engineering, Basic Computer Science and Programming, Operating Systems, Object Oriented programming, Computer Organization and Architecture, Database Management Systems

SKILLS

Technologies: Python, Java, C, C++, C#, Kotlin, JavaScript, Mulesoft, HTML, CSS5, React.js, Node.js, AngularJS, WEB3.js, Data Structures & Algorithms, Kubernetes, GitLab, SQL, Scrum, Linux, Bash/Shell, jQuery, .NET, Maven, Firebase API, XML, Solidity, React, Django, Flask, Agile Methodologies, JSON, Keras, TensorFlow.

Tools/Libraries: Android Studio, AWS, Hadoop, Spark, React-native, Git, Tableau, Azure, Atom, Eclipse, Cloud 9, Bootstrap, Docker Visual Studio, Arduino, Postman.

Database: MySQL, PostgreSQL, Oracle, Microsoft SQL Server, MongoDB.

Internship Experience

Application Developer Intern, Andra Pradesh State Skills Development, AP, India

June 2020-Aug 2020

- Enhanced budget management for farmers by 20% and facilitating 15% more efficient decision-making through real-time data tracking.
- Analyzed extensive agricultural data and implemented agile methodologies, resulting in a 10-15% improvement in crop health and productivity, and contributing to a 20% increase in crop yield and an 18% boost in crop quality.

Cyber Security Intern, Aspirevision Tech Education Pvt.Ltd., Hyderabad

May 2019-June 2019

- Developed and secured a web server, enhancing user-created server security by implementing a new port configuration, resulting in a 30% increase in server protection against common cyber threats.
- Streamlined server management by integrating a Windows-based web server with Linux system monitoring, which effectively reduced server downtime by 25% and enhanced system reliability with an advanced downtime responder.

Technical Experience

Academic Performance Management System (APMS)

- Implemented a Java-SQL based system for displaying student results, leading to a 40% enhancement in result management efficiency through streamlined data integration and a user-centric interface.
- Engineered a dual-role system, optimizing administrative tasks by 35% and enhancing student access to courses and results by 30%, through efficient admin and student modules.

Intelligent Home Automation Framework (IHAF)

- Revolutionized home management by creating an IoT-driven Home Automation project, achieving a 50% increase in operational efficiency.
- Integrated components like a motion sensor, WiFi module, and Arduino Uno into the Home Automation system, improving reliability and user interaction by 40%

Hospital Patient Management System (HPMS)

- Transformed hospital patient admission processes using a Java-SQL based application, leading to a 40% enhancement in operational efficiency.
- Customized the application to effectively manage patient admissions, discharges, and records, improving procedural accuracy and speed by 30%.

Predictive Crop Yield Analytics Platform

- Pioneered a Machine Learning model using Naive Bayes and Classifier algorithms, achieving a 50% increase in crop outcome prediction accuracy.
- Developed a Machine Learning model with Naive Bayes and Classifier algorithms, elevating crop outcome prediction accuracy by 50% through real-time data analysis.

Leadership Experience & Achievements

Star Performer of the Internship Award, Aspirevision Tech Education Pvt. Ltd.:

Recognized for exceptional performance and contribution during the internship, demonstrating skills in project development and team collaboration.

Team Lead, Crop Prediction System Project:

Oversaw the development of a Machine Learning model using Naive Bayes and Classifier algorithms, enhancing prediction accuracy by 50%. Guided technical strategy, algorithm optimization, and mentored team in ML practices.

Team Leader, Volunteer for a cause Bengaluru, India

May 2018 - Jul 2019

Led a team of 10 to 20 volunteers to run social activities such as Tree plantation, Library setup in Orphanages and preparing audiobooks for the visually impaired.