



# Santosh Vishwanathan

B.E - Information Science and Engineering  
R V College of Engineering

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.E	R V College of Engineering	8.5 (Current)	Present 5th Semester
PUC	Jain PU College	97.3% with 100 in Mathematics and Computer Science	2020
Secondary	CBSE Board	94.4%	2018

## OBJECTIVE

A determined individual looking forward to opportunities for applying software engineering practices and contribute to the organization's business outcomes.

## SUMMARY

- Applied Machine Learning techniques to develop Diabetes Predictor for patients and contributed in building web-portal for diabetic patients to ensure holistic care.
- Lead the team in building microcontroller based automated irrigation system with responsive web platform for farmers to optimize the use of resources and maximize the yield and productivity.
- Built an NFT Marketplace to promote local artworks in blockchain hackathon held at PES University.
- Developed web application using Design Thinking methodology for end users to visualize and learn Data Structures and Algorithms.

## PROJECTS

- Smart Irrigation System and Web-based Platform for Farmer Welfare** *Mar. 2021 - Feb. 2022*  
*RVCE* [Github](#)
  - Developed IoT-enabled automated irrigation system interfaced with sensors
  - Contributed in building a responsive web-portal integrated with smart irrigation system for farmer welfare
- Diabetes Prediction using Machine Learning** *June. 2022 - Aug. 2022*  
*IEEE Project* [Reports](#)
  - Developed diabetes predictor using supervised machine learning techniques - Decision Trees, Random Forest, Regression algorithms utilizing sci-kit learn python library
  - Contributed in developing a portal for diabetic patients to track health status and ensure holistic care of diabetic patients.

## TECHNICAL SKILLS

- Programming:** Python3.11, C, C++
- Web Design:** Django, HTML5, CSS3, JavaScript
- Libraries:** Numpy, Pandas, TensorFlow and Keras(Deep Learning), Sci-kit Learn(ML Models), NLTK(NLP)
- Tools:** VisualStudio Code, Jupyter Notebook, Git
- IoT:** Arduino IDE
- Database:** MySQL

## PAPER SUBMISSIONS

- Smart Irrigation System and Web-based platform for Farmer Welfare:** Manuscript due to publish
- Alzheimer's Disease Detection and Classification using Deep Learning Methods:** Artificial Intelligence and Machine Learning in Applied Biotechnology (AIMLBIO) Conference, RVCE, Bangalore, Dec 2022

## CERTIFICATIONS

- Python3 Programming | Dec. '20
- NLP Certification | Jul. '22
- JavaScript Beginner to Expert | Jan '22
- Amazon Web Services Hands On | Dec.'21

## POSITIONS OF RESPONSIBILITY

- Member,** Dhruva Club RVCE *Jan. 2022 - Present*  
Contributed in Data Driven Astronomy research