

# RAKESH BODAVULA

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## EDUCATION

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**Bachelor of Technology** (Indian Institute of Information Technology, Sricity )

August,2020 - April,2024

- Computer Science Engineering ( CGPA : 9.64 )
- Courses: Data Structures and Algorithms, Full Stack Development, Computer Architecture, Database Management, Algorithm Analysis, Object Oriented Programming, Operating Systems, Artificial Intelligence, Machine Learning, Computer Networks.

## SKILLS

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**Languages:** Python, Javascript, SQL, Java, C++, C.


**Databases:** MongoDB, MYSQL.

**Frameworks:** ReactJS, Express.js, Node.js, jQuery, Bootstrap.

**Tools:** Tensorflow, keras, Numpy, Pandas, Scikit-Learn, Git, Docker, Postman, VScode.

## PROJECTS


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**Farmers Web Portal**  *ReactJS v18, NodeJS v16, MongoDB and ExpressJS.*

- Designed and built a responsive web page that effectively educates a diverse group of farmers on the distinct characteristics of over 20 different crop types.
- Formulated, Planned, and launched a robust e-commerce platform to enable seamless procurement of over 100's of premium, certified agricultural products by farmers
- Collaborated with a team of 5 members and managed to complete project before the deadline.

**Sunshot Solar NowCasting**  *(Python, Machine Learning, Deep Learning)*

- Developed both Machine Learning and Deep Learning models that predicts the solar Photo Voltaic output based on Ground-Based Sky Images.
- Optimised the models and got an mse value of 2.2 on average and a best mse value of 1.3
- Trained 4 models out of which 3 are very rarely used models and they are outperforming the traditional models having a mse difference of around 0.8 - 1.5 and a r2 score of 0.2.

**Military Management App**  *Java, MYSQL.*

- Constructed a command line application to store details of 1000's Soldiers with less data redundancy.
- Coordinated with a team of 4 members and took the responsibility of guiding the team.
- Strengthened the workflow of the application using the 4 main pillars of the Object Oriented Programming (OOP) concepts thoroughly in an effective way.
- Stored data with less than 10% redundancy which in turn reduced the data fetch time by 50%.

**Blog Maintainer**  *ReactJS, Bootstrap5, CSS3, JSON-SERVER.*

- Created a project that helps people write and read blogs on all kind of topics that helps to share knowledge, learn new things and perspectives and hence improve their skills.
- Devised a user-friendly UI that is easy to navigate and comprehensible for users who are new to system.
- Implemented and shaped a streamlined UI, optimizing state flow and employing only 6 key components.

## EXTRA-CURRICULAR ACTIVITIES

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- Full filled the role of an Anchor in the Institute Events having an audience of around 900.
- IIITS volleyball player (Left Wing Spiker).