# RAKESH BODAVULA

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## EDUCATION

**Bachelor of Technology** (Indian Institute of Information Technology, Sricity ) August 2020 - May 2024

- Computer Science Engineering ( CGPA : 9.5 )
- Courses: Data Structures and Algorithms, Database Management, Object Oriented Programming, Full Stack Development, Computer Networks, Computer Architecture, Machine Learning, Deep Learning, Virtual and Augmented Reality.

## TECHNICAL SKILLS

**Languages:** C++, Javascript, SQL, Python, Java, C.
**Databases:** MongoDB, MYSQL, CosmosDB
**Frameworks:** ReactJS, Express.js, Node.js, jQuery, Bootstrap, REST API.
**Tools:** Numpy, Pandas, Scikit-Learn, Tensorflow, Git, Docker, Postman, VScode, Unity3D.

## EXPERIENCE

**Software Engineering Intern** January 2024 - June 2024
Autodesk *Bangalore*

- Building a scalable chatbot using Python, Microsoft Azure and OpenAI to handle daily inquiries for 500-1000 clients, streamlining service processes.
- Integrated OpenAI's pre-trained LLM's for generative effective response to client queries, improving accuracy with training on client service data.
- Deployed the chatbot on Azure to optimize its performance and scalability for handling high user volume daily.
- Technologies used: Python, Microsoft Azure, Generative AI, SQL, REST API, Event Grid, CosmosDB

## PROJECTS

**Farmers Web Portal** *(ReactJS, NodeJS, MongoDB and ExpressJS.)*

- Developed a dynamic and responsive web page featuring a user-friendly interface, aimed at effectively educating a diverse community of farmers on the distinct characteristics of more than 20 crops, while offering comprehensive guidance throughout the agricultural calendar.
- Formulated and launched a sophisticated platform featuring 4 key functionalities: Crop Suggestion, Discussions page, Market Place, and Chat Bot.
- Collaborated with a team of 5 members and successfully deployed the docker image on Microsoft Azure.

**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 rmse value of 1.85 on average and a best rmse value of 1.67
- Successfully trained and assessed 3 models, obtaining RMSE int range of 1.67 - 2.05 and R-squared (R2) score of 0.92 - 0.95 .

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

- Constructed a command line application to store details of 1000's of Soldiers with less data redundancy.
- Strengthened the workflow of the application using the 4 main pillars of the Object Oriented Programming (OOP) concepts thoroughly in an effective way.