

# PRASHANT KUMAR

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## EXPERIENCE

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### Research Intern | TCS Innovation Lab Hyderabad

📅 June 2022 – August 2022

- Worked on Quantum Chemistry - Exploration of computational design parameters of riboregulators.
- Developed a python package to obtain sequences for allosteric ribozymes that can sense oligonucleotides.

### Research Intern | Innovative Technologies Laboratories, KAUST, Saudi Arabia

📅 August 2022 – Present

- Working on developing various deep learning algorithms for healthcare.

## EDUCATION

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### Bachelor in Technology, Indian Institute of Technology, Mandi

📅 Aug 2019 – Present

- **CGPA: 7.69/10**
- **Relevant Courses:** Data Science I, II, III , Deep Learning and Applications , Analysis and Design of Algorithms, Biostatistics, Bioinformatics , Computational Biology

## LANGUAGES AND TECHNOLOGIES

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- **Programming Languages:** Python, Perl, R, HTML
- **IDEs and Programming Tools:** Spyder, VS Code, Jupyter Notebook, Google Colab
- **Data Science:** Keras, TensorFlow, Pandas, Scikit-Learn, Numpy, Matplotlib

## PROJECTS

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- **Siya:** Siya is an AI chat bot which is created to help customers get the information they need. (*Python, NLP, Tensorflow, Flask*)
- **Gut Microbiome Classifier:** To classify which bacteria is there in our gut, a model is created with R language and its library. This is the ongoing project supervised under Dr. Tulika P. Srivastava. (*R, SOM*)
- **Abalone Age Predictor:** Prediction of Abalone's age through its number of rings using Regression Models. All the regression models were used and model with least RMSE was selected. (*Python, Pandas, Sk-learn*)
- **Pustakey:** A Book Recommendation System based on Collaborative Filtering and deployed on heroku. (*Python, Flask, Heroku*)

## LEADERSHIP / EXTRACURRICULAR

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- **Kamand Bioengineering Group:** *Founding member* of Kamand Bioengineering Group.
- **iGEM IIT Mandi:** *Founding and core team member* of iGEM Team of IIT Mandi.