

# Tanmay Bisen

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## EDUCATION

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- **Rajiv Gandhi Institute of Petroleum Technology** Jais, UP  
*(An Institute of National Importance along the lines of IITs)*  
*Bachelor of Technology in Computer Science and Engineering; CPI: 8.35* Dec 2020 - Jun 2024
- **Banyan Tree School** UP  
*Intermediate: 88.6 % Matriculation: 10 CGPA* 04/2016 - 04/2019

## EXPERIENCE

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- **Teachnook Machine Learning Internship Program** 1/6/2022-31/7/2022  
*Certificate of completion*
  - Training includes **Scikit Learn, Linear Regression, Logistic Regression, Support Vector Machine**
  - Major Project in a group of 2 : Wine Quality Detection- Report includes EDA, accuracy of all the algorithms used, Conclusion

## PROJECTS

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- **UNESCO INDIA-AFRICA Hackathon- [GitHub](#)** Ongoing
  - Developing a software tool/app which can diagnose Cardiomegaly from digital chest X-Ray
  - Chest X-Ray **images are processed** in order to see the condition of the lungs and heart.
  - Using **Keras** and **TensorFlow** creating own **CNN** model.
  - Training on ImageNet trained models like **Inception, ResNet50, VGG19**
- **Patient Health Care using Machine Learning- [GitHub](#)** Ongoing
  - Using **Unet-Architecture** for **Image segmentation** of Medical images in order to autopopulate the medical reports and finding abnormalities.
  - Using **Deep Learning model** for Radiologist workload optimization and prediction.
- **Prediction of Oil Spill from tankers using AI/ML techniques- [GitHub](#)** 04/2022-09/2022
  - Problem statement is under the Ministry of Earth Science.
  - Came up a multimodal approach to solve the problem.
  - Compared **ANN, KNN, Isolation Forest, SVM, LOF, COF** and **PCA** in order to get the best accuracy.
  - Used **Graph Neural Network** for finding anomalies.
  - Used **LSTM** for predicting future Trajectory of the ship.
  - Used **U-Net Architecture** for the final stage of confirmations using SAR images.
- **FUNZOA website [GitHub](#)** 03/2021-05/2021
  - Made a Tourist place review website in a group of 2.
  - **HTML, CSS, Bootstrap** for front-end design
  - **Node.js, Express.js** for server-side scripting
  - **MongoDB** for database management
  - **PassportJS** for authentication
  - **REST APIs** for communication between front-end and back-end
  - Visitors can view tourist places and reviews
  - Registered users can perform CRUD operations on places and edit details.
- **DIC PROJECT-QUANTUM COMPUTING- [GitHub](#)** 09/2021-10/2021
  - Learned all the existing **Quantum Key Distribution Protocol**
  - Made **Quantum Teleportation** Circuits on Qiskit.
  - Made various circuits of algorithms such as **Bernstein Vazirani, Dutsch-Juzsa, Grover algorithm** on Quantum Circuit composer. [GitHub](#)

## SKILLS

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- **Areas of Interest:** Data Structures, Algorithms, Machine Learning, Deep Learning, Neural Networks, Web Development, Quantum Computing
- **Languages:** C++, Python, C, SQL, HTML, CSS

## ACHIEVEMENTS

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- **First Prize worth one lakh INR in SMART INDIA HACKATHON 2022** Led the winning team to solve the unsolved real-life problem statement. Certificate.
- **Selected in UNESCO INDIA AFRICA Hackathon** Leading a team of 6 members and working on the project.
- **Selected in Google Developers Machine Learning Bootcamp:** One out of top 200 developers selected for Google Developers Machine Learning Bootcamp over the country.
- **Coursera Deep Learning Specialization:**Completed all the 5 courses of Deep learning specialization. Certificate of Completion.
- **NPTEL CERTIFICATE-Quantum Computing:**Got eligible for the silver+elite Certificate by NPTEL-IIT Madras. Certificate.
- **DIC Project:**Certificate from the Design and Innovation Center(RGIPT).
- Awarded RGIPT Merit-Cum-Means Scholarship for the Top 10 percent students in the CSE batch.
- Qualified IIT-JEE Advanced 2020, ranking in the top 1.84 percent.

## POSITIONS OF RESPONSIBILITY

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- **Treasurer** FIPI, RGIPT