

Aman Kumar

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EDUCATION

Indian Institute of Technology Bhubaneswar
Bachelor of Technology in Civil Engineering, 8.28 CGPA
Army Public School Danapur Cantt.
CBSE Class XII, 90.4%
Army Public School Dinjan
CBSE Class X, 10 CGPA

Bhubaneswar, Odisha
2017 - 2021
Patna, Bihar
2015 - 2016
Dinjan, Assam
2013 - 2014

TECHNICAL SKILLS

Programming Languages C++, Python, MATLAB, HTML, CSS, JavaScript
Technologies React.js, Node.js, Express.js, MongoDB, SQL
Others Package managers, Git, Github, MS Excel, OOPS

PROJECTS

- Expense Tracker Application** | 🔄 | 🔗 May 2023
- Developed a complete expense tracking **CRUD application** using the **MERN Stack**.
 - Implemented key features including expense creation, management, viewing, and expense analysis over time.
 - Utilized **Node.js**, **Express** for **backend** and **MongoDB** for efficient data storage and retrieval.
- To Do Application** | 🔄 | 🔗 April 2023 - May 2023
- Developed** a feature-rich ToDo application utilizing **React** for the frontend, **MongoDB** for the database, and **Express** and **Node.js** for the backend, providing a seamless and responsive user experience.
 - Ensured code quality and maintainability by following **SOLID**, **DRY**, and **KISS** principles, resulting in clean, modular, and efficient code that is easier to understand, test, and extend.
- Repeat purchase Probability Prediction from Purchase History** Feb 2023 - March 2023
- Analysed** large amount of sales data and performed **EDA** in python to identify purchasing pattern.
 - Identified** target variable and performed **feature engineering** to cluster the customers.
 - Summarized** the purchasing history for each customer in a row to feed into a model for classification.
 - Trained** and **tuned** multiple classifiers and boosting algorithms and **ensembled** the best performing models to achieve a **AUC** score of 0.91.
- Scene Classification using Transfer Learning** March 2023
- Used a **sequential** NN with a pytorch pre-trained model as base and **ensembled** the best performing models.

EXPERIENCES

- Use of Red Mud in production of concrete - A Review** May 2020 - July 2020
- Supervisor: Dr. Jothi Saravanan Thiyagarajan, Assistant Professor, IIT Bhubaneswar
- Analysed** the previous works done on the use of red mud as a constituent of geopolymer concrete.
 - Deduced** the conditions for optimal utilization of red mud with **maximum strength**.
- Mumbai Metro Rail Corporation** May 2019 - June 2019
- Analysed quality and safety control protocols being followed at site and improved the workflow by **15%**.

RESEARCH PUBLICATIONS

- 🔗 | **Aman Kumar** et al., Leaching and heavy metal binding characteristics of red mud-based construction materials - Select Proceedings of ICSMC 2021, **Lecture Notes in Civil Engineering**, Springer Singapore, 2022
- 🔗 | **Aman Kumar**, T. Jothi Saravanan, K.I. Syed Ahmed Kabeer, A review on the utilization of red mud for the production of geopolymer and alkali-activated concrete, **Construction and Building Materials**, Volume 302, 2021

POSITION OF RESPONSIBILITY

- Football Secretary, Students' Gymkhana, IIT Bhubaneswar** April 2018 - March 2019
- Managed Intra/Inter-College events and organised inter IIT trials with a footfall of **150 students**.
- Student Guide, Counselling Service Team, IIT Bhubaneswar** April 2018 - March 2019
- Mentored** and guided **10 freshmen** students in acclimatizing to the environment of the institute.

ACHIEVEMENTS

- Won** the inter college **football tournament** at Ashwamedha, IIT Bhubaneswar, 2018
- Member** of **Inter IIT Sports Meet** contingent of **IIT Bhubaneswar** for two consecutive years, 2017 and 2018
- Qualified** the written exam of **National Defence Academy**, 2017
- Won** the **District** level basketball and football tournaments and represented at **state level** (Assam), 2014