

AKSHATA BABAN KOTTI

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Chemical Engineering IIT (BHU), Varanasi	8.94	2022
MSB (XII)	Sevasadan Junior College, Nagpur	84.15	2017
MSB (X)	St Anne's High School, Warora	93.80	2015

SKILLS

Language: C++, JavaScript.

Areas of Interest: Algorithmic Programming, Data Structures, Web Development - MERN stack, Machine Learning.

INTERNSHIP/TRAINING

Machine Learning Intern at FTS

June'21

Air Quality Index(AQI) Prediction and Forecasting

- Performed an **Exploratory Data Analysis(EDA)** on air quality data(2015-20) of various stations across major cities in India. Built a **Hybrid Neural Network Model with LSTM(Long Short-Term Memory)** capable of forecasting air pollution levels and Air Quality Index on a daily and hourly basis.
- Developed a **real-time AQI Web Application** in JavaScript using **OpenWeatherMap API**. There's a graphical map to see the worldwide pollution status and weather information along with the AQI data.

PROJECTS

Business Communication Management System

- Web-based e-learning and business communication platform integrated with an **online library system**. The application allows users to communicate through chats and video conferencing. It provides one place for meeting, teaching, learning, and sharing.
- The client-side and admin-side applications are build using **React.js**, backend is build using **Node.js** and **Express.js**, and the database used is MongoDB.

Used Car Price Prediction

- Developed ML model which accurately predicts the price of a used car to make informed purchases. The ML project included all steps of **Data Exploration** and **Feature Engineering**.
- Compared the performance of the **supervised learning algorithms** and performed **Hyperparameter Tuning** for **Random Forest Regressor**.

Customer Churn Prediction

- Developed a churn prediction model which can assist telecom operators to predict customers who are most likely subject to churn.
- The model developed uses machine learning techniques on a big data platform and builds a new way of **feature engineering and selection**.
- The best results were obtained by applying **XGBOOST algorithm** for classification in this churn predictive model. Deployed this Machine Learning Model using **Django Framework**.

POSITION OF RESPONSIBILITY

Public Relation Executive, Society of Chemical Engineering, IIT BHU.

August'19 - April'20

- Responsible for promoting and managing public view of society, organizing Guest lectures for Society and OSOZE'20 (Department fest, IIT BHU), increasing the reach of Society, and connecting students with Alumni.

Sports Coordinator, Society of Chemical Engineering, IIT BHU.

August'18-August'20

- Organized various sports activities and encouraged students to participate to the best of their ability.

EXTRA-CURRICULAR ACTIVITIES

- Participated in the Dance competition of Aagman'18(Intra-fresher's competition).

Member of Volleyball Team, IIT BHU.

August'18-present.

Teamwork

- Participated as a member of Volleyball team in Inter-IIT Sports Meet'19, Udgosh'19(IIT Kanpur), Sportech'19(IIT Delhi).
- Participated as a captain of Volleyball team(B) in Spardha'19(Annual Sports fest of IIT BHU).

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