

Curriculum Vitae

Shashank M

[Phone: +91 9663426547; shashankm08012000@gmail.com]

M. Tech from IIT Guwahati & Gifu University, Japan.

[Linkedin-profile/shashank](#)

Python | MySQL | Power BI | MS Excel | ML & DL | DSA |

Passionate about Data science and Data analytics with sound knowledge. Seeking opportunities, to utilize my analytical and technical skills to solve real life problems.

Education

Degree / Certificate	Institute / Board	CGPA/Percentage	Year
M. Tech(Food Science and Technology)	Indian Institute of Technology, Guwahati and Gifu University, Japan	8.50(Current)	2021 - 2023 (Present)
B. Tech(Agricultural Engg)	College of Agricultural Engineering, Raichur (Karnataka)	8.154	2017 - 2021

Experience

- **Intern from 'Sinfonia Technology Co., Ltd. Japan'.** [November 2022]
Worked on Applications of Machine Learning in the Agriculture to boost Crop productivity.

Developed a Machine Learning algorithm to predict the type of crop can be grown based on the availability of nutrients in the soil to boost Crop productivity.

Projects

- **Life Expectancy Prediction** [January 2023]
 - Explored the dataset for **prediction of life expectancy** in the different countries based upon the attributes like immunization, mortality, social and economic factors.
 - Analyzed the dataset using **descriptive statistics** and **visualization** techniques. Performed **Data cleaning** and **feature engineering operations**. Applied **Multiple linear regression** and **Artificial neural network** (ANN) models on the dataset.
 - Selected **Artificial neural network** model with **Mean Absolute Error** of **1.72** & **Mean Square Error** of **6.41**.
 - **Telecom Customer Churn Analysis.** [February 2023]
 - Examined the dataset of telecom customers along with their attributes. Performed **exploratory data analysis** like: Visualization, data preprocessing, feature engineering & univariate analysis on the dataset.
 - Applied Logistic regression, SVC, Decision Tree and Random Forest Classification models on the dataset.
 - Selected **Logistic regression** with accuracy score of 80%, precision, recall & F1 score in the range [0.82-0.89], after modelling imbalanced dataset using **Upsampling** & **ENN**.
 - **Drug Performance Evaluation** [March 2023]
 - Explored and analyzed the dataset of drugs based upon their attributes likes efficacy, price, review, ease-of-use, form-of-use etc. from business perspective using **Power BI**.
 - Examined the **effectiveness** of drugs for a medical condition along with the other attributes to determine which form of the drug is best suited and cheaper in price to be acceptable by the patients.
 - Developed a **Power BI dashboard** for data visualization to communicate the information clearly & concisely.
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Technical skills

- **Programming languages:** Python, Python libraries(Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn)
- **Database Management:** MySQL
- **Machine Learning:** Regression, Decision Tree, Random Forest, KNN, SVM, Clustering, PCA, XGBoost.
- **Deep Learning:** ANN*, CNN*.
- **Data Structure and Algorithms:** Array, String, Tree, Stack, Queue, Linkedlist, Searching, Sorting.
- **Business Intelligence:** Power BI
- **Statistics:** Descriptive statistics, Inferential statistics: Hypothesis testing, Regression, Correlation, Distributions, Z test, t test, Chi square test.
- **MS Office:** MS Word, MS Power Point, MS Excel.

** Elementary proficiency*

Achievements

- **GATE 2021:** Secured **All India Rank 45** in the Agricultural Engg Stream among 2277 candidates.
 - Certified in the advanced typing assessment test with a speed of **50 WPM** and accuracy of **97%**.
 - Recipient of **JASSO Scholarship** awarded by **Ministry of Education, Japan** for students pursuing their studies in **Japan** as a part of Student Exchange program.
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Key courses taken

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|--------------------|----------------------|
| • Machine Learning | • Mathematics |
| • Microsoft Excel | • Python Programming |
| • Statistics | |
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Extracurricular

- **National Service Scheme:** NSS Volunteer from 2018 – 2019 during Under graduation.
- Areas of Interest: Geopolitics, International Relations, Spirituality, History, SPY Movies, Chess Player (reasonably good at strategic and critical thinking).