



RAKSHIT GUPTA

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SUMMARY

I am a self-driven, ambitious undergraduate with a voracious sense of curiosity. Motivated by my intrinsic need to learn and comprehend, I strive to acquire information and look for solutions. I am looking for an opportunity to expand my skillset and have a keen interest in **Data Science, Data Analysis, Machine Learning and Business Analytics** fields. Skilled in Python, Machine Learning and MySQL, I believe "Success comes from the courage to start, the commitment to keep learning, and the willingness to grow—it's just the matter of beginning."

EDUCATION

AMITY UNIVERSITY

Bachelor of Technology(B.Tech)

Major in Biotechnology, Specialization in Bioinformatics.

Cumulative GPA: 7.35/10.0

Relevant Coursework: Python, AI & ML, Statistics, Computational Biology, Bioinformatics

Noida, India

(2021- 2025)

WORK EXPERIENCE

Zidio Development

Data Science Intern

Noida, India

May 2024 - July 2024

Emotion Recognition Project: -

- Implemented **audio data cleaning and standardization techniques** to ensure high quality inputs for accurate analysis.
- Utilized **MFCCs for feature extraction** from speech signals.
- Trained **LSTM networks for emotion classification**, achieving high accuracy and **F1-scores**.
- Conducted model evaluation and fine-tuning to optimize performance.

Customer Segmentation Project: -

- Collected and preprocessed e-commerce customer data for analysis.
- Used **data visualization** to uncover patterns and distributions.
- Employed **K-means clustering** to segment customers based on purchasing habits, behaviors, salaries, and purchasing rates.
- Provided detailed insights for each cluster to inform product offerings and marketing strategies.

[Zidio Internship Certificate.pdf](#)

[Zidio Training Certificate.pdf](#)

SN Medical College, Agra

Summer Internship

Agra, India

May 2024 - July 2024

Project: - "Evaluation of Electrolyte Imbalances in Chronic Kidney Disease Patients".

Objective: - To investigate the prevalence and impact of electrolyte imbalances on Chronic Kidney Disease (CKD) progression.

Key Responsibilities: -

- Collected and processed blood samples from **51 clinically confirmed CKD patients**.
- Analyzed **electrolytes (sodium, potassium, ionized calcium)** and **biochemical parameters (urea, creatinine)**.
- Conducted **statistical analyses** to identify **correlations** and trends.

Results: -

- Observed a significant rise in **urea, creatinine, and potassium** levels as CKD progresses (**p-value < 0.001**).
- Identified **hyperkalemia and hypocalcemia** as major concerns for CKD patients.

[SN Medical College Completion Certificate.pdf](#)

UNIVERSITY PROJECTS/ PERSONAL PROJECTS

Pipeline Automation for Visualization and Data Interpretation of Human Microbiome Research.

May 2023 - July 2023

- The objective of this project is to create a pipeline automation system that **improves data visualization** and understanding for studies on the human microbiome.
- This project intends to streamline and accelerate the study of complicated microbiome data by utilizing powerful computational methods, giving researchers a thorough and user-friendly platform for interpreting their findings.

h1n1 Vaccine Prediction

Dec 2023 - Dec 2023

- **Objective:** Predict h1n1 vaccine uptake based on health, behavior, and demographic factors.
- **Model Training:** Used **Logistic Regression, Decision Tree, Bagging, AdaBoost, Gradient Boosting, and Random Forest**.
- **Evaluation:** Assessed models using accuracy and confusion matrices.
- **Key Finding:** Random Forest Classifier achieved the highest accuracy by **84%**

Taxi Fare Prediction.

Nov 2023 - Nov 2023

- **Objective:** Predict taxi fares based on pickup time, location, and other factors.
- **Feature Engineering & Model Training:** Analyzed feature correlations, visualized with heatmaps. Used **Linear Regression, Decision Tree, AdaBoost, Random Forest, and Gradient Boosting**.
- **Evaluation:** Assessed models using R^2 score.
- **Key Finding:** Gradient Boosting Regressor achieved the highest accuracy by **76%**

ACHIEVEMENTS

Arcadia Mania

Winner of Chess Tournament

[Chess_Competition.pdf](#)

Noida, India

Feb 2023

National Volunteer

Worked as a National Volunteer at **JAX Foundation**

[Jax_Certificate.pdf](#)

Noida, India

Jan 2023 - Apr 2023

Tech Trivia

Bagged 3rd position in the event “Tech-Trivia” hosted by **Illuminati-the technical club**.

[Tech trivia.pdf](#)

ADDITIONAL

Technical Skills: Python, MySQL, Machine Learning, Deep Learning, C++, NLP, Statistics, Biotechnology, R, EDA, Data Base Management System, Bioinformatics, Ms-Excel, Ms-Powerpoint, Ms-Word, Artificial intelligence, Big Data, Problem solving, Data Analysis

Languages: Full professional proficiency in English, Native/ Bilingual proficiency in Hindi, Basics of French

Certifications & Training:

- [Yhills Training Certificate Machine Learning with Python.pdf](#)
- [Yhills Machine Learning Internship Certificate.pdf](#)
- Machine Learning Basics [VI Certificate .pdf](#)
- Python and AI Bootcamp [Microsoft learn student ambassador \(python and AI\).pdf](#)

Cultural and Sports Activities: Singing (Vocalist & Guitarist), Chess, Handball, Cricket, Squash.