

# ANOOSHKA BAJAJ

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## EXPERIENCE

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### Engineer – Radisys India Ltd.

📅 July 2023 - June 2024

(Jul'23 - Nov'23 : Intern)

- Improved the **5G** Network infrastructure by modifying the OAM code base in C++ and Python.
- Handled requests across various modules like **CM**: Added YANG model configurations per 3GPP specifications, and **PM**: Handled performance counters.

### Data Engineer Intern – Technocolabs Softwares Inc.

📅 July 2022 – Sep 2022

- Pre-processed large datasets in **Python** and performed Exploratory Data Analysis (EDA).
- Used **BigQuery** for creating data warehouse and **Cloud Composer** for managing ETL workflow.

### Research Intern – IISER Bhopal | Dr. Sunando Datta

📅 June 2022 – July 2022

- Studied YAP target genes in Hippo Signaling Pathway in order to inhibit tumor growth.
- Implemented **web scraping** in Python and did **data visualization** of YAP target genes.
- Wrote Python code for cell migration analysis and deployed the web application with **Flask**.

## EDUCATION

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### M.S. in Data Science - Residential

Indiana University Bloomington

(2024-2026)

### B.Tech. in Bio-Engineering with Minor in Computer Science Engineering

Indian Institute of Technology Mandi, Himachal Pradesh, India

(2019-2023)

- **CGPA**: 8.50
- **Relevant Courses**: Data Science I (Data Analysis), Data Science II (Probability and Statistics), Data Science III (Machine Learning), Deep Learning and Applications, Statistical Learning, Applied Biostatistics, Computer Vision, Data Structures and Algorithms.

### Senior Secondary Graduate (CBSE 12)

Stepping Stones Senior Secondary School, Chandigarh, India

(2019)

- **Percentage**: 90.20 %

### Secondary Graduate (CBSE 10)

Sacred Heart Senior Secondary School, Chandigarh, India

(2017)

- **CGPA**: 10.00

## SOFTWARE PROFICIENCY

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- **Programming Languages**: Python, R, C++, MATLAB, Perl
- **IDEs**: Jupyter Notebook, Visual Studio Code, Spyder
- **Other Tools/Frameworks**: Git, Tableau, Keras, TensorFlow, Flask, MySQL

## RELEVANT PROJECTS

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- **Skin Cancer Classification App: (Deep Learning (CNN), Flask)**  
Developed a web application for predicting and classifying skin cancer types using user-uploaded dermatoscopic images.  
Trained the CNN model on HAM10000 dataset to classify skin cancer into one of 7 categories.
- **Recommendation System: (Python, Flask)**  
Made a web application to recommend similar anime based on user ratings.  
Implemented collaborative filtering and popularity based recommendation system.
- **Data Analysis and Visualization: (SQL, Tableau)**  
Executed SQL queries on a MySQL-linked dataset to do analysis of college placement statistics.  
Plugged it with Tableau and created dashboard for real-time data visualization.
- **Sentiment Analysis: (Machine Learning, NLP)**  
Sentiment Analysis done on tweets to identify the sentiments of people towards chatGPT.  
Trained the data on two ML models - Logistic Regression and SVM, and compared test accuracy.
- **Statistical Analysis: (R)**  
Analyzed the dataset of a controlled experiment using two-way ANOVA and linear regression.  
Conducted a post-hoc test and obtained the scatter plot of residuals to investigate the effects of two factors - medical drugs and lifestyle, on the level of LDL cholesterol.

## MISCELLANEOUS CERTIFICATIONS

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- **Intermediate Machine Learning:** Issued by Kaggle.
- **Feature Engineering:** Issued by Kaggle.
- **MATLAB Onramp:** Issued by Mathworks.

## POSITIONS OF RESPONSIBILITY

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- **Coordinator - Dance Club, IIT Mandi** (Aug '20 - June '21)  
Managed club activities, budget and conducted workshops with professional dancers.
- **Coordinator - Table Tennis Team, IIT Mandi** (Aug '20 - June '21)  
Planned and conducted various online competitions and sessions with the sports society.
- **Sports Secretary - Gauri Kund Hostel, IIT Mandi** (Aug '19 - June '20)  
Supervised and managed sports equipment for the hostel with 200+ boarders.  
Worked with the Sports Council to conduct Inter Hostel Sports Tournaments.

## ACHIEVEMENTS

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- **Flipkart GriD 3.0:** Among the **top 31 teams in India** to be qualified for level 3 in the Smart Bag Creator Challenge. (2021)
- **Utkarsh'21: Winner** of AstroQuiz conducted in the intra college technical fest. (2021)
- **BioFest'21: Winning** team of the intra college Flash talk competition. (2021)
- **Table Tennis:**  
Table Tennis **National Games:** Represented Chandigarh for 2 consecutive years. (2011, 2012)  
**NCC Games:** Represented Punjab, Haryana, HP and Chandigarh directorate. (2014)  
**Silver Medalist** at Inter IIT Sports Meet. (2022)
- **Dance:**  
Completed **Asia's first Academic Course on Hip-Hop studies** offered by Usha Pravin Gandhi College of Arts, Science, and Commerce, and SVKM. (2021)  
**Exodia'23: First Runner Up** in group dance at inter college cultural fest. (2023)  
Represented IIT Mandi at **Inter IIT Cultural Meet 4.0 and 5.0.** (2019, 2023)