ANOOSHKA BAJAJ

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EXPERIENCE

Software Engineer – Radisys India Ltd.

📅 July 2023 - present

- Working with the 5G team to improve OAM functionalities of **SysRepo**.
- Making changes to the code flow in **Linux** environment and implementing it using **Git**.

Data Engineer Intern – Technocolabs Softwares Inc.

📅 July 2022 – Sep 2022

- Preprocessed the large dataset in **Python** and performed 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

- 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 using **Flask**.

Research Project – IIT Mandi | Dr. Tulika P Srivastava

📅 July 2021 – Nov 2021

- Computational Biology project - designed indices to increase throughput of Illumina sequencing.
- Wrote a **Perl** script for the sequence of barcodes and did quality analysis for error reduction.

EDUCATION

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:** Computing and Data Science, Data Science 2 (Probability and Statistics), Data Science III (Machine Learning), Deep Learning and Applications, Applied Biostatistics, Computer Vision, Data Structures and Algorithms, Engineering Mathematics, Linear Algebra.

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

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

RELEVANT PROJECTS

- **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.
- **Deep Learning:** *(Python)*
  Given the MNIST dataset, our group of 3, trained the fully connected neural network (FCNN)
  using different optimizers for backpropagation algorithm and compared classification performance.
  Also built an autoencoder to obtain the hidden representation and used it for image classification.
- **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.
- **Sentiment Analysis:** *(Python)*
  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.

MISCELLANEOUS CERTIFICATIONS

- **Intermediate Machine Learning:** Issued by Kaggle. *(July 2022)*
- **Feature Engineering:** Issued by Kaggle. *(July 2022)*
- **MATLAB Onramp:** Issued by Mathworks. *(Aug 2021)*

POSITIONS OF RESPONSIBILITY

- **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

- **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)*