

# ANUBHA SINGH

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## EDUCATION

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| New York University, Tandon School of Engineering                                                                                                                    | September 2023 – May 2025  |
| <ul style="list-style-type: none"><li><i>MS in Computer Engineering</i></li></ul> Courses: Machine Learning, Deep Learning, Big Data, Computing Systems Architecture |                            |
| Indian Institute of Science, Bangalore                                                                                                                               | October 2022 - August 2023 |
| <ul style="list-style-type: none"><li><i>PG Advanced Certification in Deep Learning</i></li></ul>                                                                    |                            |
| Mount Carmel College, Bangalore University, Bengaluru                                                                                                                | June 2019 - July 2022      |
| <ul style="list-style-type: none"><li><i>BSc in Computer Science, Mathematics, and Statistics (CMS)</i></li></ul>                                                    |                            |

## WORK EXPERIENCE AND INTERSHIPS

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| <b>Software Engineering Intern, Vara</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | June 2024 - Present         |
| <ul style="list-style-type: none"><li>Building a full-stack carbon footprint calculator using React and Climatiq API, improving user engagement with the sustainability compliance platform.</li><li>Developing and deploying a machine learning agent within a large language model chatbot using RAG to summarize citations on Amazon SageMaker and Docker.</li></ul>                                                                                                                   |                             |
| <b>Course Assistant for Data Science, NYU Stern School of Business</b>                                                                                                                                                                                                                                                                                                                                                                                                                    | September 2023- May 2024    |
| <ul style="list-style-type: none"><li>Guided 50+ students through course material and assignments during regular office hours, enhancing their understanding and performance.</li><li>Managed grading responsibilities efficiently under the supervision of industry professor Richard DiSalvo, providing timely and constructive feedback to students.</li></ul>                                                                                                                         |                             |
| <b>Sakalya Wisdom Foundation, Digital Strategist</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      | July 2022 – August 2023     |
| <ul style="list-style-type: none"><li>Orchestrated end-to-end website design and ongoing maintenance for <a href="#">Sakalya Wisdom Early Years</a>, demonstrating expertise in web development, and increasing traffic by 90% in the first year.</li><li>Implemented innovative marketing strategies that led to a 25% increase in overall marketing ROI.</li><li>Successfully managed marketing budgets, achieving 10% cost savings while maintaining campaign effectiveness.</li></ul> |                             |
| <b>Machine Learning Intern, Analysed Variant Labs, UP</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 | October 2022- February 2023 |
| <ul style="list-style-type: none"><li>Developed a dataset, performed data preprocessing, and trained models using Azure ML, achieving an accuracy of 92%. Created a Flask API for the implementation of the model.</li></ul>                                                                                                                                                                                                                                                              |                             |
| <b>Full Stack Developer (Intern), Lean IT India Private Limited, Pune</b>                                                                                                                                                                                                                                                                                                                                                                                                                 | December 2021- January 2022 |
| <ul style="list-style-type: none"><li>Led a team of 5 while implementing a full-stack fitness website using HTML, CSS, JavaScript, and SQL.</li><li>Effectuated 5+ features including creating new dietician accounts, scheduling video calls, and storing details in the database.</li></ul>                                                                                                                                                                                             |                             |

## TECHNICAL SKILLS

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- Computer Science: Java, Unix, C, C#, HTML, CSS, JavaScript, ReactJS, SQL, PHP, Python (NumPy, Pandas, Pytorch, Tensorflow, Keras, Scikit Learn), Spark, Hadoop
  - Statistics: R, SPSS, MS Excel, Mathematics: MATLAB

## ACADEMIC PROJECTS

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- Eunoia- A Virtual Study Space:** Modules include authentication, integrated task management system, seamless PDF upload capabilities, secure data storage, and the implementation of an advanced virtual study space. Used Flutter, Dart, and Google Firebase as the database. Selected for project presentation among 25 teams.
  - ResNet from Scratch:** Attained a 95.01% test accuracy on CIFAR-10 dataset with a custom-built ResNet model, meticulously fine-tuned through extensive data augmentation, optimizer variation, and learning rate strategies. Leveraged Weights and Biases for streamlined experiment tracking and collaboration.
  - Recommendation Model with Spark ALS:** Achieved a Validation mAP of 0.0464 on the MovieLens dataset by developing a collaborative filtering recommendation model using Spark's ALS algorithm. Conducted parameter tuning and data preprocessing, user filtering and duplication removal, to optimize performance.
  - Food Classification and Deployment:** Improved food classification accuracy to 85.34% using MobileNet V2 architecture, reducing memory footprint. Implemented advanced training methods like layer unfreezing and callback functions for robust performance. Managed distributed TensorFlow training with Kubernetes, enhancing efficiency and scalability.

## MISC:

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- Course Instructor for NYU K-12 Cyber Security (2024)*
  - Awarded Wasserman Grant 2024*