Anubha Singh

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EDUCATION

New York University Aug 2023 – May 2025
M.S. in Computer Engineering, GPA: 3.6/4
Relevant Coursework: Machine Learning, Deep Learning, Big Data

Indian Institute of Science Oct 2022 - Aug 2023
Diploma in Advanced Deep Learning, GPA: 8.7/10
Relevant Coursework: Voice Conversion using DL, Prompt Engineering

Bangalore University July 2019 – June 2022
BSc in Computer Science, Mathematics and Statistics, GPA: 8.3/10
Relevant Coursework: NLP, Software Engineering

SKILLS

Technical

- **Programming Languages** - Python, C, C++, SQL, Java, JavaScript, R, HTML, TypeScript
- **Frameworks & Libraries** - Django, React, Node.js, TensorFlow, PyTorch, Pandas, NumPy, Scikit-learn, Keras, OpenCV, Matplotlib, LangChain, Promp Eng, Kubernetes, SciPy, Statsmodels, Scikit-learn, XGBoost, QuantLib, PyPortfolioOpt, TA-Lib
- **Data Tools** - Spark, Hadoop, MySQL, Dask, Tableau, Power BI, Git, Excel, CI/CD, OOPs

EXPERIENCE

Vara **San Francisco, California**
Software Engineering Intern *May 2024 – Aug 2024*

- Built **a full-stack carbon footprint calculator** using React and Climatiq API, reducing the time for carbon footprint estimation from **weeks to hours** and streamlining the integration of emission data into sustainability compliance processes.
- Deployed **a machine learning agent within an LLM chatbot** on Amazon SageMaker and Docker, enabling efficient summarization of large citation datasets with a **30% improvement in processing speed**.

Sakalya Wisdom Foundation **Bengaluru, India**
Digital Strategist *July 2022 – Aug 2023*

- Built and optimized the Sakalya Wisdom Early Years website using modern technologies like **React** and TypeScript, leveraging **A/B testing** and **Google Analytics** to drive a 90% increase in traffic by refining user experiences and improving site performance.
- Developed **and implemented logistic regression models** and clustering algorithms to segment user groups, achieving a 25% improvement in marketing ROI and 10% cost savings through targeted campaigns and optimized budget allocation.

Analysed Variant Labs **UP, India**
Machine Learning Intern *October 2022 – February 2023*

- Engineered and preprocessed a comprehensive dataset, then trained **high-performing machine learning models** using Azure ML,achieving **92% accuracy**.
- Designed and deployed a scalable **Flask API** to integrate the trained model, enabling real-time predictions and seamless application integration.

Lean IT India Private Limited **Pune, India**
Full Stack Developer Intern *December 2021 – January 2022*

- Led a team of 5 while implementing a full-stack fitness website using **HTML, CSS, JavaScript, and SQL**.
- Developed **4+ features**, including creating new dietician accounts, scheduling video calls, and storing details in the database.

PROJECTS

Virtual Study Space *(Flutter, Dart, Google Firebase)* *[github]*

- Developed real-time task management and collaboration features, as well as seamless PDF upload and secure storage using Firebase, allowing users to create, track, and update tasks, upload study materials, and access them across devices, enhancing productivity and teamwork.
- Built a secure authentication system using Firebase Authentication and designed a responsive, user-friendly UI/UX with Flutter, ensuring secure login, data protection, and an intuitive experience across both mobile and web platforms.

Recommendation Model *(Python, Spark)* *[report]*

- Built a collaborative filtering recommendation model with Spark's ALS algorithm, achieving a Validation mAP of 0.0464 on the MovieLens dataset.
- Optimized model performance through parameter tuning, data preprocessing, and user filtering.

MTA Transit Hub *(Python, Node.js, Kubernetes, WebSockets)*

- Developed a real-time transit monitoring web application using the MTA API, reducing data latency by 30% and enabling faster access to live transit updates.
- Implemented route optimization features within the application, improving route planning efficiency.

Photo Album Web App *(ElasticSearch, Rekognition, S3, API Gateway, CloudFormation, AWS)*

- Built a scalable photo album app with natural language search using ElasticSearch, Amazon Lex, and Rekognition, reducing search time by 5% and improving search precision.
- Established a CI/CD pipeline via CloudFormation, accelerating deployment by 8% and boosting reliability by 11%.