Anant Singh

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Education

NEW YORK UNIVERSITY | Master of Science in Computer Engineering **| GPA: 3.89**   **MAY 2023**
- *Concentration:* Data Science
- *Relevant coursework:* Machine Learning, Deep Learning, Data Structure & Algorithms, Machine Learning in Finance, Advanced Hardware Design, High Performance Machine Learning

APJ ABDUL KALAM TECHNICAL UNIVERSITY | Bachelor of Tech. in Electronics Engineering   **MAY 2019**
- Major: Electronics, Minor: Communication

Technical Skills

Machine Learning, Deep Learning, Statistical Learning, Problem Solving, Data Analysis, Data Visualization, OOPs, Relational Databases, Computer Vision, Feature Engineering, Performance Analysis and Benchmarking

- *Programming Languages:*   Advanced Python, C, Java, SQL, MySQL, Verilog, VHDL, HTML
- *APIs, Libraries:*   TensorFlow, PyTorch, Scikit-Learn, CUDA, NumPy, Pandas, Matplotlib, Seaborn
- *Software and Tools:*   Tableau, Visual Studio, Git, Linux, Vivado, SLRUM, PyCharm, VSCode

Projects

HIGH ACCURACY CONSTRAINED RESNET | *Resnet on Steroids*   **2022**
- Improved ResNet accuracy on CIFAR10 dataset while keeping the model parameters under 5 million.
- The project code is fully modular and device agnostic in design and final accuracy was 94.8%.

RECONNAISSANCE ROBOT FOR MILITARY | *SpySee*   **2018-2019**
- Led team of 5 on a live video feed robot, equipped with GPS, camera, and various sensors. Python was used for controlling the robot based on raspberry pi. Developed Android App using Java to control the Robot wirelessly, it could recognize known targets by employing Convolution Neural Networks and OpenCV.
- Project got recognition and cash prize from Defense Research and Development Organization of India.

MACHINE LEARNING BASED ANDROID APP | *Predicto*   **2017-2018**
- Built an app providing pre diagnostic services for diseases like Breast Cancer, Diabetes without any need of going under actual lab tests, using data from hospital records as input.
- Coded server side on Raspberry Pi as host, developed the Android App with Java, and integrated Random Forest and Naïve Bayes Models in Python. Project got first prize at annual technical project presentation.

Experience

TATA CONSULTANCY SERVICES | *Assistant System Engineer*   **NOV 2020 - AUG 2021**
- Developed organizational apps and workflows, in an Agile software development cycle following OOPs and working on Relational Databases with Python, JavaScript, CSS and HTML.

KURSI STORE | *Data Scientist, Co-founder*   **MAY 2019 - NOV 2020**
- Cofounded a startup focused on providing space saving furniture in Indian metro cities. Started from 2 and grew to 50 in 9 months during the pandemic. Built the website (www.kursistore.com) for the startup.
- Managed Data Science team and increased sales by deploying Machine Learning pipelines to predict best marketing channel and budget for a given product to better utilize resources for product marketing.

Publications

- An Active-C Realization for Simulating Electronically Controllable Lossy Grounded Inductance (IEEE)
- 5G: An overview of Channels characteristics and modelling techniques (IEEE)

Activities and Volunteer Service

Provided volunteer service for educating unprivileged children of 6-10 grade — Came first in college wide Competition in Annual sports meet.