

Tanishq Chakravarty

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SUMMARY

Fresher skilled in Python, SQL, machine learning, and front-end technologies like HTML, CSS, JS, TS, Laravel and Angular. Experienced in academic research and EDA projects. Eager to contribute to data-driven and UI-focused roles.

EXPERIENCE

Engineering Intern – Full Stack

Recruit CRM (WORKFORCE CLOUD TECH, INC)

August 2023 – November 2023, WFH

- Utilized key technologies including PHP, Laravel, and MySQL during internship projects.
- Developed a project focused on analyzing resumes of multiple candidates using AI APIs with good accuracy of ~90%.
- Conducted thorough testing of APIs using Postman to ensure functionality and performance.
- Gained valuable insights into the integration of AI technologies in backend development.
- Recognized the importance of AI APIs in enhancing modern software solutions.

PROJECT

Intelligent Beamforming: Reinforcement Learning Empowering 5G/6G Networks

Python, NumPy, gym, TensorFlow • rebrand.ly/UAVReport • January 2024 – June 2024

- Applied Deep Neural Network (DNN) Q-Learning in 5G–6G networks to optimize UAV selection.
- Identified the best 4 out of 64 UAVs to enhance signal reception near 0 dB SINR.
- Addressed orientation challenges by analyzing UAV angles from 0° to 360° to prevent beam misalignment.
- Filtered up to 95% of background noise to improve signal clarity.
- Achieves ~98% accuracy in UAV selection and filtering over 50 iterations using Q-Learning.

Zepto Inventory EDA (Out Of Stock Replenishment)

Python, Pandas, Plotly Express, Rich.Console. • rebrand.ly/ZeptoEDA • May 2025 – June 2025

- Conducted Exploratory Data Analysis (EDA) on Zepto's inventory dataset using Pandas and NumPy.
- Cleaned data by handling missing values and standardizing date formats for consistency.
- Summarized item-level metrics to identify fast-selling items and out-of-stock categories requiring replenishment.
- Utilized Plotly Express and Seaborn for interactive and time-based visualizations to explore trends and seasonality in inventory.
- Generated insights that streamlined inventory planning and identified products needing replenishment.

Processors For Smart Devices

Python, Pandas, Plotly Express, Seaborn. • rebrand.ly/ProcessorsEDA • June 2025 – Present

- Analyzing a dataset of processors used in smart devices (smartphones, tablets, wearables, IoT).
- Covers key features such as processor designers, core configurations, instruction sets, release years, and wireless capabilities.
- Data preparation involved standardizing processor names, cleaning inconsistent values, and imputing missing data.
- Analysis focuses on trends in architecture, word width (32/64-bit), core design, and wireless feature integration.

EDUCATION

B. Tech (Electronics and Communication)

Vellore Institute of Technology • Vellore, Tamil Nadu, India • 2025 • 8.01

Higher Secondary Certificate

Namo Rims Junior College • Pune, Maharashtra, India • 2021 • 90.83%

SKILLS

Coding Languages: Python, Java

Machine Learning: Pandas, NumPy, Plotly Express, Plotly Dash, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, Torch, Gym

Front End: HTML, CSS, JavaScript, TypeScript, Laravel, Angular, PHP, MySQL

Tools: MS Office, draw.io, Latex, Overleaf, Git
