

PARTH SINGH

Delhi/Bangalore, IND | dearparthsingh@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | P: +91 920 576 7228

Highly motivated B. Tech. (Final Year) - Computer Science & Engineering (CSE) student & a technology enthusiast with a passion for finding innovative solutions to simple & complex problems using technology. Proactive problem solver with excellent technical, people & communication skills. Excellent foundation in programming, algorithms, data structures, data analytics & AI/ML. Looking forward to opportunities to learn & contribute to domains like SDE, DevOps, AI/ML, BI, CV, NLP, Cloud Technologies, AR/VR.

EXPERIENCE

DRONGO AI

Junior Software Engineer Intern

Crafting computer vision software using AI:

- Image enhancement for medical imaging for ProRad: a software for automated report generation using Image Processing (OpenCV) and Django for medical centres/clinics and hospitals.
- Research and Development of intelligent diagnostic assistant. Explore and apply various CV techniques to develop a software to analyse Xrays, MRIs, and more and use Learning Models to learn and enhance it for better diagnostics & visualisation.
- Identify anomalies and continually learn and adapt to enhance diagnostics over time.

Bangalore, IND
Jan 2024 – Present

IRDETO

SDE Intern

Bringing AI & ML to improve user content interaction:

- Design & Developed innovative AI- powered content interaction enhancements. Helped design an advanced workflow that seemingly integrates CV & NLP to optimize content recommendation, personalization, real time analytics & targeted ads.
- The project involved working on streams like Real-time event recognition & Content Tagging to achieve 20% improvement in metadata design
- Closely observed agile development principles & practices across the project lifecycle, driving iterative & adaptive progress towards achieving project objectives & cultivating a strong foundation for successful collaboration with my team.

Delhi, IND
Jun 2023 – Aug 2023

TO THE NEW

Data Science Intern

Sentiment Analysis for Product Review:

- Leveraged NLP techniques to extract relevant text, pre-process it and remove noise. Applied data engineering techniques to ensure robust data handling and analysis, further enhancing sentiment classification through ML algorithms. Successfully engineered over 2 petabytes of data for actionable insights & data-driven decision making.
- Closely worked with Business Analysis team to provide insights into how people feel about various topics, brands, & products by analyzing large volumes of text data from a wide variety of sources, such as social media, customer reviews & news articles. Result of this analysis helped in developing informed business strategies.

Noida, IND
Jun 2022 – Aug 2022

EDUCATION

PES UNIVERSITY B. Tech

Computer Science & Engineering | CGPA: 8.31 | SGPA: 9.25

➤ 5 x Scholarships | ACM member | GDSC member | Ronin (Top 1%) on Coding Ninjas | 1st in GAI & Code of Honour | Shoutouts for my contribution in multiple hackathons | Mentor @ HackerSpace-ECC | Volunteer @ Maaya23'

Bangalore, IND
ec 2020 – Present

DELHI PUBLIC SCHOOL PCM

CBSE | Class XII- 90.2% | Class X- 91.2%

➤ 10 x Scholar Badges | Sports Captain | Debate Club Head | Fundraiser team member for Exchange Programs | Prominent roles in Youth Parliament and PAX MUN

Noida, IND
Apr 2006 – May 2020

PROJECTS

Deepfake Detection: Developed a deepfake detection model that aims to detect manipulated images and videos using ML algorithms. Used image processing techniques to analyze emotions of a forged image and detect anomalies in the input data.

Meetup (Social Networking Platform): Developed a social networking platform that utilizes GNN algorithms such as Graph Neural Networks (GNN) including GCN, Graph SAGE, and GAT for advanced link prediction and leveraged SOTA recommendation systems.

Flight.com (Travel Booking Website): An E2E application for booking flights. Users can search for and compare flights from different airlines, view available seat options and pricing, and book their flights using Flask, Jinja and MySQL as the backend technologies.

Weather Dashboard: Web App that allows users to search for a city to get current weather and 5 day forecast. Cities that users previously looked up will be saved in their local storage. Retrieved and forecasted the integrated AQI index using web scraping and ML basic techniques.

House Rent Prediction: Used information about 4700+ Houses / Flats available for rent with different parameters. Basing these indicators, predicted house rent values using ML algorithms.

Microsoft-Coupons clone + Ecommerce price tracker: Scrape prices and coupons on specific products across different websites and alert when there's a good deal. Tracks prices across temporal intervals, allowing users to analyse price fluctuations over time and identify optimal buying windows.

Chat Service using MQTT: Built a basic publisher-subscriber model using MQTT as a broker in Python

Recommendation system for OTT: Intelligent application that suggests personalized movie recommendations to users based on their history, ratings & preferences. Uses various ML algorithms & recommendation systems to provide users with a curated list of content they are likely to enjoy

License Plate Recognition: E2E parking system without payment booths which optimizes smooth entry/exit, ensuring precise time tracking, enabling hassle-free and user friendly online billing for an effortless and efficient parking system.

ADDITIONAL

Technical Skills: Python (Proficient), Java, C, C++ | WebDev Frameworks like Django, Flask & Jinja, Streamlit | ML, CV & NLP frameworks | PySpark | Databricks | Agile | Tableau, PowerBI, LucidChart | SQL & Amazon RDS | Kubernetes, Docker, Jenkins, Jira | Gephi, NetworkX | NoSQL DBs like Neo4J, MongoDB | Matlab | GIT | Basics of MERN

Certifications: Google Analytics Course | Python Proficiency from Cutshort | Intro to ML from Verzeo | Introduction to Cloud 101 AWS | Statistics & Probability from Khan Academy

Languages: Fluent in English and Hindi, Beginner in Spanish

Relevant Coursework: Data Structures & Algorithms, OOPS, Databases, Computer Networks, Operating systems, Cloud Computing, Data Analytics and Machine Intelligence, Network Analysis and Mining, Information Retrieval, Theory of computation, MERN stack