Malladi Pradyumna

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EDUCATION

Birla Institute of Technology and Science   Hyderabad, India
BE Hons in Computer Science and Engineering; **GPA: 8.26/10.00**   *Jun 2019 – May 2024 (Expected)*
Minor Degree in Data Science; **GPA: 8.00/10.00**   *January 2023 – May 2024 (Expected)*

Fiitjee Junior College   Kolkata, India
High School Diploma; **Marks: 96/100**   *June 2021*

WORK EXPERIENCE

Paralleldots Technologies   Gurgaon, India
Tech Intern   *Jun 2023*

- Trained and compared two SOTA Object Detection Deep Learning models (Yolonas and Yolov5) models on custom datasets
- Used shell and python scripting to preprocess the dataset and trained on a remote Nvidia Gpu.

PROJECTS

Indic Script Swap | *GitHub*

* Made a rust program to transliterate between various Indic and Roman Scripts.
* The software also offers an intermediate representation and is suited for threaded applications.
* The software is also compilable to Wasm and is available as a rust crate.

Neural Networks Python | *GirHub*

* Implementation of a basic neural network library in pure python and numpy.
* Trained successfully on the MNIST dataset.

Sanskrit Metres Rust | *GitHub*

* A pure rust program that identifies the scheme of a sanskrit verse. It identifies both Vrtta and Matra based metres.
* Used levenschtein distance to provide the closest metre if a scheme is not found.

Rental Agency Application | *GitHub*

* Made a fullstack web application that mediates between Owners of Properties and Tenants as a submission for our Database Management Systems Group Project.
* It has a vanillajs frontend, nodejs backend and a MySql database.
* Has Manager, DBA, User user types each of which can perform various actions as per their authority like Renting, Adding, Removing properties and users.

E Commerce Website | *GitHub*

* ∗ Made a fullstack E Commerce web application as a submission for our Object Oriented Programming Group Project.
* ∗ It uses Thymeleaf for templating the frontend, Spring Boot for the backend and has a MySql database.
* ∗ Has Admin, Manager, Customer, Shopping Cart, Product Gallery functionalities.
* ∗ They can perform various tasks as per their authority like add objects to cart/gallery, purchase items, log in/out, manage users, etc.

PPT-API | *GitHub*

* ∗ Used the ChatGPT api to create powerpoint slides from a text prompt in natural language by parsing a json-response.
* ∗ Used Flask (python) for the backend, Jinja2 for templating.
* ∗ User can give a prompt in natural language and download a prepared ppt (in any language) by the click of a button

Full List of my coding projects: | *GitHub*

SKILLS

Programming: Rust, C, C++, Python, MySQL, Bash, Awk, Typescript/Javascript, Java

Technologies: Git, Docker

Frameworks/Libraries: Numpy, Pandas, Flask, Spring-Boot, Solid-Js, MySql

Developer Tools: Linux, vim/neovim, bash, awk

Languages: English (Native), Telugu (Native), Hindi (Elementary), Sanskrit(Elementary)

RELEVANT COURSEWORK

Major coursework: Calculus I-II, Linear Algebra, Differential Equations, Data Structures and Algorithms, Microprocessors and Interfacing, Digital Design, Object Oriented Programming, Database Systems, Machine Learning

AWARDS & ACHIEVEMENTS

Ranked 3rd in a college wide integration-bee competition organized on the occasion of the International Mathematics Day.

Top 1.5 percentile of the prestigious JEE Mains examination (2021)

CLUBS/ORGANIZATIONS

Student Member   *Sept, 2022 to Present*

1. Society for Open Source Software (SOS)
2. Sanskrit and Foreign Languages Club (Safl)

HOBBIES

Sanskrit

Linux

Open Source Software

Badminton

REFERENCES

Will be Provided on Request