Sagar Mali

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EDUCATION

College of Engineering — Pune, India
B.Tech, Computer Engineering, 8.34 CGPA(till 4th sem) — *Aug. 2019 – Present*

Dnyandeep Vidya Mandir — Khed, India
Science, 91.23 percentage(12th) — *Jun. 2017 – May 2019*

Dnyandeep Vidya Mandir — Khed, India
Secondary Section, 100 percentage(10th) — *Jun. 2016 – May 2017*

PROJECTS

Database Indexing using Btrees and B+tress | *C , Advanced Data Structures* — Jan 2021 – April 2021

- Developed a command line application in C language, using specialized trees for databases - Btrees and B+tress.
- Implemented in such a way that after providing the text or CSV file as input database , it gives result in output files as per the commands in the input file.
- Locally database is created using File Handling at primitive level and implemented 3 operations - insertion, searching and BFS traversal with time complexcity of O(log n).

Talking Dictionary | *Python, Object Oriented Programming, GUI* — April 2021 – June 2021

- Developed an application which displays and pronounces entered word and its meaning both. Importantly, It works offline, without any need of internet using JSON file as its backbone.
- Developed interactive GUI suing Tkinter module in python. Other modules used are - Pyttsx3, Difflib with classes - Photoimage, Button, Label, text, Balloon and TK.
- Implemented inheritace, object creation and abstraction using classes and module, concepts of OOPS.

Colorizing Black and White Images | *Python, Deep Learning, GAN , UNET, PyTorch* — Sept 2021 – Present

- Developing an application which will colorize black and white images using conditional GAN and UNET.
- Inspired by the solution provided by "Image-to-image translaton with conditional GAN" research paper published in 2018 and taken original GAN paper in 2014 as a base.
- Thinking to use FastAI library's Dynamic UNET module.

ACHIEVEMENTS

- 94th Regatta Documentation Head.
- Placement Co-ordinator.
- COEP Kho-Kho team runnerup in Zest'20.
- MindSpark - Web Development Volunteer and Publicity and Outreach Co-ordinator.

COURSES

- Did "Mastering Data Structures and Algorithms" course containing 250+ lectures and 100+ interactive problems.
- Did a course "Learning C and C++ - Basic to Advance" which contains 200+ lectures and 100+ interactive problems.

SKILLS

- Javascript, HTML, CSS
- C, C++, Python