Ashish Pradhan

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Portfolio: --

Education

- **The University of Mumbai, Vidyalankar Institute of Technology** — Mumbai, IN
  - *Bachelor of Engineering, Electronics and Minor in Math (GPA: 6.28)* — *08/2017 – 05/2021*

- **Kendriya Vidyalaya No.2, Colaba** — Mumbai, IN
  - *High School (12th Percentage: 70%)* — *04/2011 – 05/2017*

Relevant Coursework

Basic Data Structures and Object-Oriented Design,
Programming Methodology and Design Patterns,
Deep Learning, Open-Source Contributor,
Mathematics for Algorithms and Discrete Mathematics,
C Programming.

Programming using Python, JavaScript and C++,
Data Science,
Machine Learning and basic NLP in Python,
Algorithm Design and Network Flows,

Experience

Python Instructor for I & T labs — 02/2022 - 03/2022 — *Visakhapatnam*
- Thought Python with basic OOPs and Data-Structure.
- Class Consisted of 100 students of courses MCA, BCA, Bachelor of Technology of all the years.
- Difficulty faced while teaching students who were earlier in their engineering career.
- Also taught machine learning after teaching them python and basics.

Volunteer mentoring for Community Website of GDSC LBCE — 12/2021 - 02/2022 — *Remote*
- Mentoring a team of 7 Open-source contributors as per the Winter of Code 2.0 organized by IIIT Kalyani.
- Project collaborator for GDSC-LBCE community website project repo on GitHub.

Hofars (Energy and Tech Startup) (Software Engineering Intern) — 06/2021 - 12/2021 — *Remote*
- A leading member of Backend Team RMS module for building a Human Resource Management Software. (Nodejs)
- Individually worked on 5 Data Science projects.
- Also designed rest-API for the backend server.
- Worked on authentication, authorization and input validation for the software and also worked in AWS SES.
- Authored the Backend using Node, managed a team of 5 and assisted in taking technical interviews for the development team.
- Designed 2 Website layouts in Figma.

Verzeo (Web-dev Intern) — 05/2021 - 06/2021 — *Remote*
- Designed the backend of a school management system and made login and logout based upon roles.
- Used Node, Express and MongoDB for the backend and connected to the cloud-based databases.
- Implemented routing, input validation from the client using Joi library, and MongoDB data validation using mongoose.

Oyester Training — 05/2020 - 06/2020 — *Remote*
- Worked on 40 mini projects on various Machine Learning algorithms.
- Learned to write online blogs on Medium and worked on different python frameworks for prototyping ML projects.
- Gained some experience in frameworks Pytorch and TensorFlow.
- Developed 2 projects on MNIST handwritten dataset.

Projects

Get-A-Mentor (MERN stack, Open-Source Project) — 05/2021-07/2021
- Merged 7 PR to the project to design the whole backend of the project.
- Used MulterJS to stream videos from Cloudinary for online storage of video content.
- Used StripeJS for payment gateway facility.
- Still in development.

Data Science Project (*Python, Jupyter-lab, online available python notebook platform*) — 09/2021-03/2022
- Completed 5 assignments based on best feature prediction based on various algorithms formulated using mathematical formulas.
- The link to my project is over here.

School Management System (NodeJS, ExpressJS) — 05/2021-07/2021
- Extracted data in the form of JSON from the database based on the roles.
- Session management using JWT and Cookies using frameworks Express and Passport.
- Database Management in local as well as on MongoDB Atlas.

Design and Development of AI Camera for Wildlife Study (Python, Pytorch, Nvidia Jetson Nano, ESP32) — 11/2020-03/2021
- Classification of images to different categories by using transfer learning on Res-Net 18.
- Worked on a Dataset of 281 real captured images for Sanjay Gandhi national park and gained an accuracy of 71%.
- Referred published papers from L'Square and many other IEEE published papers to make the architecture of the project.
- Made this project on Nvidia Jetson Nano [AI developer Board (like Raspberry-Pi) which has 128 maxwell CUDA cores.

Generative Adversarial Neural Network (Python, Pytorch) — 06/2020
- Generated 10 Handwritten digits on MNIST dataset neural networks [This is a project of Internship/Training at Oyester Training].

Drawing Board for Guessing Numbers (Python, TensorFlow, OpenCV) — 05/2020
- Drawing board made in OpenCV library and used neural network developed using TensorFlow framework.
- Trained neural network on MNIST dataset (60k images) in python using TensorFlow library.

IoT System *"Temperature and humidity monitoring system" (Embedded C, ThinkSpeak server)* **04/2019 – 05/2019**

- Designed a Temperature and Humidity monitoring system using the ThinkSpeak server.
- Used ESP8266 node module and 16x2 LCD module and used Embedded C.
- There were two node modules where one node module sensed data using humidity and temperature sensor module and the other node module received data from ThingSpeak and projected them to a 16x2 LCD.

Courses

- **Udemy C++ course.**
- **Nodejs and ReactJS Course from Verzeo.**
- **DL, NLP, OpenCV and ML from Oyester in collaboration with Diazonic Lab.**
- **Getting started with TensorFlow for AI, ML and DL and from Coursera**
- **Scientific Computing with Python from FreeCodeCamp.org.**
- **Certifications of Cut-shorts.**

Open-Source Contribution

- Helped one of my friends in developing the backend of an open-source project GET-A-MENTOR.
- CI/CD pipeline for an open-source project of GDSC LBCE website development.
- Correction in Installation script of the open-source project for the management of Kubernetes datree.io.
- Google Developers club Winter of Code Instructor.
- Project mentor for the GDSC-LBCE community website for the event WOC 2.0.
- Auto-DL open-source project contributor for the event WOC 2.0.

Technical Skills

- **Languages**: Python, HTML/CSS, C++, C, JavaScript.
- **Frameworks**: NodeJS, Mongoose, ExpressJS, ReactJS, PassportJS, MulterJS, TensorFlow, Pytorch, Django.
- **Libraries:** OpenCV, NumPy, Pandas, Matplotlib, STL in C++.
- **Developer Tools:** Git, GitHub, Linux, Docker, Jupyter lab, Google Collab, Vs code, Datree.
- **Database Programs:** MongoDB, MySQL lite.
- **Others:** Mat-Lab, Firebase, AWS SES, Figma, Whimsical.