

Pronoy Mandal

Mumbai, India

+91-9757197092 | pronoy99@gmail.com | github.com/pronoy99 | linkedin.com/in/pronoy-mandal

SUMMARY

Proactive postgraduate in Data science looking for opportunities to further hone my data analytics and problem-solving skills in an esteemed organisation. I have 1.5 years of experience in using Python and SQL for data analytics, ML and AI-based applications with a *niche* for computer vision problems. I am also skilled at writing technical documentation to supplement my projects.

EDUCATION

Degree	Institute	Grade	Year
MTech Data Science	Defence Institute of Advanced Technology, Pune	8.55/10	2020-2022
BE Electronics Engineering	Vivekanand Education Society's Institute of Technology, Mumbai	8.94/10	2016-2020
Higher Secondary	Atomic Energy Central School, Mumbai	88.20%	2016
Senior Secondary	Atomic Energy Central School, Mumbai	94.80%	2014

EXPERIENCE

- Securities and Exchange Board of India** *Aug'21 - Dec'22*
Mumbai, India
Data analyst intern
 - Developed a Business NEWS analysis system using OpenCV and YoLov4 framework
 - Refactored the original code base leading to a $\approx 7x$ speedup. Improvised the system to give accuracy $\geq 98\%$ and then deployed the code to a custom environment on a Linux VM.
 - Collaborated with Clipbyte to streamline video data onto SEBI's internal servers and prepared the dataset for the next generation of the project
- PyWiz Analytica Pvt. Ltd.** *June'21 - July'21*
Bangalore, India (Remote)
Data scientist intern
 - Developed a Keras-based image classification model to correctly identify cattle breeds on camera with an accuracy of $\approx 95\%$
 - Developed an SMS-based notification system using Twilio for the movement of cattle among concerned entities. Transactions were entered into and entity data was maintained in an SQL-based DBMS.
- Bhabha Atomic Research Centre** *June'19 - July'19*
Mumbai, India
Project trainee
 - Developed Manual Safety Logic (MSL) interlocks for the fuelling machine head of an Advanced Heavy Water Reactor using VHDL

PROJECTS

- Password generator CLI** *Dec'20 - Feb'21*
GitHub
Personal
 - Python-based CLI tool for quick password generation built using *PyInquirer*
 - Supports an array of generation possibilities while being cryptographically secure
- CNC-based PCB milling machine** *July'19 - June'20*
GitHub
Under the guidance of Dr. Asawari Dudwadkar, VESIT, Mumbai
 - Developed a one-stop PCB milling solution for through-hole PCBs using a custom-made 3-axis CNC
 - Existing tools for G-code and path visualisation were used

TECHNICAL SKILLS

- Programming Languages:** Python, MySQL, Bash shell
- Tools and Frameworks:** OpenCV, PyTorch, Pandas, Scikit-learn, Docker, Azure, HPE Ezmeral, H2O, Git, Deepsources (CI/CD)
- Documentation Systems:** L^AT_EX, MkDocs

ONLINE TRAINING

- **Problem solving (Intermediate)** Hackerrank
- **Python 3** Sololearn
- **Arduino Discovery: programming the UNO board made simple** Udemy
- **Design and Analysis of Algorithms** NPTEL

POSITIONS OF RESPONSIBILITY

- **Deputy head**, Ek Bharat Shreshtha Bharat program, VESIT, Mumbai *June'20 - Aug'20*
- **Technical coordinator**, V-REACH VESIT, Mumbai, India *June'20 - July'20*
- **Student coordinator**, Institution's Innovation Council, VESIT, Mumbai *Mar'20 - June'20*
- **Member**, Tinkerer's lab, Dept. of Electronics Engineering, VESIT, Mumbai *Apr'18 - Dec'19*

AWARDS AND ACHIEVEMENTS

- **GATE**, Secured an All India Rank of **8551** out of **83418** candidates appearing for the EC subject *2020*
- **Weave the Web**, Achieved 2nd position amongst 40+ participating teams in the Praxis'18 VESIT event *2018*