



Examination	University	Institute	Year	CGPA/%
Graduation	IIT Bombay	IIT Bombay	2018	

Completed a **Minor Degree with CPI 8.4 in Center of Machine Intelligence and Data Science (C-MInDS)**  
**SCHOLASTIC ACHIEVEMENTS**

- Secured **All India Rank 2021** in the JEE Advanced and achieved **99.46%** percentile in the JEE-MAINS exam ('20)
- Awarded an **Advanced Performer's** grade for being in the **Top 3** among 167 in **Structural Mechanics I** ('22)
- Attained an **9.9 SPI** during the 6th semester with **6 AAs** in core courses within field of the Civil Engineering ('23)

## PROFESSIONAL EXPERIENCE

**AI Researcher and Python Developer** | Extrapreneurs India Limited (Jun '23 - Jul '23)

Awarded **Letter Of Recommendation** for exemplary work done in LLM field at Extrapreneurs India Limited

- Explored Large Language Models like Falcon, Flan-T5, and BERT using the Hugging Face's **Transformers** library
- Prompt Engineering** and **Fine-tuning** the Flan-T5 on FinQa dataset on **AWS SageMaker** and Google Colab
- Automated balanced sheet data extraction from annual reports pdfs using **OCR**, **vector store** and OpenAI's API
- Utilized **Beautiful Soup** for web scrapping companies data into CSV file and hosted model on **Streamlit Cloud**

## KEY PROJECTS

**Multimodal Fusion in Educational Technology** | Guide: Prof. Ramkumar Rajendran | SMILE Lab (May '23)

- Utilized **OpenCV** to extract frames and applied **VGG16** (Transfer Learning) for the feature extraction from videos
- Employed **K-means** clustering technique and effectively visualizing clusters in the 3D space using **PCA** and **Plotly**
- Achieved a **0.75 F1-score** in predicting assignment correctness using **Late Fusion** technique and **XGBoost** model

**GKEAL** | course project | Guide : Prof. P Balamurugan

(Aug '22 Nov '22)

- Implemented GKEAL on CIFAR-100, miniImageNet, and CUB200-2011 datasets using ResNet18 **few-shot learning**
- Explored the impact of **Buffer Size(I)** on **CIFAR-100** and Evaluated metrics top-1, top-5 accuracy, forgetting rate
- Introduced regularization-based loss inspired by **EWC** paper concluded trade off of accuracy btw new vs base class

**ReInPAI** | B.Tech project | Guide : Prof. Dr. V. Jothiprakash

(Aug '22 )

- Enabled model selection (LSTM, Random Forest, SVM, ANN) with **Bayesian optimization** for optimal parameters.
- Implemented **data upload** (csv,excel) functionality and displayed useful **statistics** like skewness , mean , % zeros
- Calculated R<sup>2</sup>, MAPE, NSE, KGE with visualizations generated using **Plotly** and forecasting over the next 30 days.

**AeduZ Project** | Django Framework | Startup Project

(Dec '22)

- Developed a platform for 1:1 mentorship sessions utilizing **Bootstrap** for frontend design and **Django** for backend
- Created a mentee **dashboard** to provide insights into past mentorship sessions integrated with **Google Login** setup
- Implemented **booking system** for scheduling the session, and payment integration with **Razorpay** for transactions

**Coccon T-Shirt Sales Prediction** | Time Series Analysis | Self Project

(Jan '22 - Mar '22)

- Ensured data stationarity through the **adfuller** test and determined p and q values using the **PACF** and **ACF** plots
- Employed various predictive models, including ARIMA, VAR, Random Forest,LSTM, and Linear Regression Model
- Utilized the advanced forecasting techniques and configured **Prophet** model, resulting the lowest **MAPE** of **9.67%**

## POSITION OF RESPONSIBILITY

**Web Manager** | AAKAAR (Annual Civil Department Festival) 15th edition, IIT Bombay

(Jul '22 - Mar '23)

- Hosted 4 Django projects on **AWS Ubuntu 22.04** EC2 instance by using **Nginx**, **unicorn** with AWS Route 53
- Developed websites for Competitions, Events, Symposium and FnB using the **Bootstrap**, comprising **20+** webpages
- Improved website visibility on the Google Search engine using the **SEO** concepts and the **Google search console**
- Integrated **Google login** using Google Cloud and automated email using the **AWS SES** service via **Boto3 SDK**

## TECHNICAL SKILLS

- Programming & other Languages:** Python, C++, SQL, Javascript, Bash, PHP, HTML, CSS, Javascript, LATEX
- Frameworks:** Django, Flask, Bootstrap, Streamlit, FastAPI | **Softwares:** Excel, Power BI, Git, MATLAB, XAMPP
- Data Science and Libraries:** Numpy, Pandas, Keras, Scikit-learn, Tensorflow, Matplotlib, Seaborn, Requests, BeautifulSoup (bs4), PyPDF2, Tesseract, Datetime, Regex, Transformers, Langchain, Pytorch, Collection, NLTK
- Certifications:** Google's Generative AI course | Excel Fundamentals by Corporate Finance Institute (CFI)

## EXTRACURRICULAR ACTIVITIES

- Successfully completed the **75 km** cycle ride on the occasion of **75th** Independence Day organised in **5 hours** ('20)
- Contributed as a key member of the IIT Bombay team that secured **1st rank** in All India **Chess League 3.0** ('22)
- Served as a Trainee at **L&T** for Mumbai Trans Harbour Link (MTHL), Largest Sea Bridge **21.8 KM** in India ('22)
- Completed Gymkhana Area Survey **B.Tech project**, utilizing **Total Station**, **GPS** and **AutoCAD** software ('23)
- Managed a team and developed a responsive website for **PhD Connect Conclave** using the **PHP** framework ('23)
- Provided the **DSA** mentorship at **10x Academy**, offering doubt resolution on Slack and personalized coaching ('23)