Vivek Saurabh Verma			**180020118**		
Chemical Engineering			**B.Tech.**		
Indian Institute of Technology, Bombay			**Gender: Male**		
			DOB: 10-04-2000		

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2022	8.2

PROFESSIONAL EXPERIENCE

WORLDQUANT (INDIA) | QUANTITATIVE RESEARCH INTERN *[May'21-July'21]*

News Classifier	▪ Created a classifier with **95% accuracy** to predict financial events from news & create **event-based alphas** ▪ Built baseline models and enhanced training data to **reduce misclassifications** and **dataset imbalance** ▪ Developed sentiment models using **NLP** & **neural networks** | Tested **PNL performance** on past 5 years
Clustering Instruments	▪ Designed algorithm to cluster **financial instruments** using existing groupings for **better risk management** ▪ Created a customizable **data manager** to label instruments by using the algorithm on input groupings data

VARIDUS (SINGAPORE) | LEAD STARTUP ADVISOR *[Jan'21-Apr'21]*

Received **Letter of Recommendation** *from the CEO for exemplary contributions during internship period*

Business Strategy	▪ Accelerated tech businesses growth via introductions to **capital, partnerships** & **cost reduction services** ▪ Assessed potential markets for client firms and **acquired partners** for them in **SEA** and **Nordic countries**
Venture Capital	▪ Analysed **25+** venture backed startups to selectively fund companies during growth with capital partners ▪ Collaborated with Data Science & Finance teams and built a model to correctly identify successful **IPOs**

TECHJAPAN (TOKYO) | BACKEND DEVELOPER *[Dec'20]*

Development	▪ Created **GraphQL** APIs using **AWS Amplify, AppSync** and **Cognito** for secure data transfer from database ▪ Developed pipeline resolvers and functions to serially execute CRUD operations with **AWS DynamoDB**
Impact	▪ Built **backend** for serverless application aimed to offer internship & full-time job opportunities in Japan

KEY PROJECTS

SELFIE TO ANIME TRANSLATION | DEEP LEARNING – THEORY & PRACTICE | GUIDE – PROF. P. BALAMURUGAN *[Aug'20-Dec'20]*

Research	▪ Analysed a research paper from **Cornell University** to learn effects of **attention module** and **AdaLIN** ▪ Examined unsupervised **GANs** with adaptive layer instance normalization for Image-to-Image translation
Image Translation	▪ Created attention-guided model on **Google Colab** using **PyTorch** & **Pillow** for selfie-to-anime translation ▪ Outperformed existing translation models with fixed network architecture like **CycleGAN, UNIT & DRIT**

FORECASTER FOR EQUITY MARKETS | MACHINE LEARNING FOR REMOTE SENSING | GUIDE – PROF. B. BANERJEE *[May'20-Jun'20]*

Research	▪ Surveyed existing machine learning algorithms used to predict stock prices from **financial indicators**
Predictive Model	▪ Pre-processed **time series** stock data using **exponential smoothing** and extracted technical indicators ▪ Developed predictive models using **Random Forest** algorithm and **Long Short Term Memory** networks

POSITION OF RESPONSIBILITY

MANAGER, WEB & CREATIVES | TECHFEST, IIT BOMBAY *[May'20-May'21]*

Core Team Member of Asia's largest Science and Technology Festival | *Budget: INR 33M+* | *Footfall: 175,000+* | *Events: 280+*

Development	▪ Developed **SEO** optimised website on **AWS** server using **REST API**, **Laravel** and **SQL**|**4.7M+** hits annually ▪ **Automated** the scorekeeping system by **removing manual tasks** & saved **50+ man-hours** (monthly basis) ▪ Built dashboard for **9000+** CAs, admin & mass mailing portal, streamlining the publicity management
Management	▪ Led a 2-tier team of **50+** students for developing website & conceptualisation and execution of events ▪ Spearheaded Epilepsy awareness campaign '**HEAL**' | **5000+** participants | Endorsed by Fatima Shaikh ▪ Coordinated Mental Health awareness drive under initiative `HOPE' | **20K+** participants | **100+** colleges
Int'l Relations	▪ Executed **Int'l Summits** with speakers from **NatGeo**, Marsh Labs, ITC, ICICI and **Pulitzer Prize Winners** ▪ Nominated as member of Global Youth Action Team from India for **International Bureau of Epilepsy**

EXTRA CURRICULARS & ACCOLADES

Scholastic	▪ Awarded **Markers Cup** for outstanding performance in High School Physics by Delhi Public School, Risali ▪ Represented school in **20th National Children's Science Congress** held at Banaras Hindu University	
Technical	▪ Proficient in Python, C++, Scikit-learn, TensorFlow, PyTorch, NumPy, Pandas, Seaborn, Django, Flask & R ▪ Tools: RStudio, Git, Android Studio, MATLAB, MS-Excel, MySQL, Tableau, PowerBI, AutoCAD & Blender	
Social	▪ Executed the **Guinness World Record** breaking Student Solar Ambassador Program | **6K+** students ▪ Promoted **Financial Literacy** amongst youth by collaborating with 15+ NGOs | **4000+** students ▪ Contributed **80+ hours** of community service as a volunteer under National Service Scheme, IIT Bombay	['18] ['19]
Misc.	▪ Led a team of 4 to an build **Optical Character Reader** | Presented prototype at **TechExpo**, IIT Bombay ▪ Supervised development of **inventory management system** in **Seasons of Code, WnCC**, IIT Bombay	['19] ['20]