

Kshitiz Khandelwal

Third Year Undergraduate | Dept. of Electronics and Electrical Communication Engineering

Minor in Computer Science and Engineering | Micro-Specialization in Entrepreneurship and Innovation

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EDUCATION

Dual Degree (B. Tech + M. Tech) in Electronics and Electrical Communication Engineering	CGPA – 8.69/10
Indian Institute of Technology Kharagpur, India	2023
Grade XII, All India Senior School Certificate Examination (CBSE)	Percentage – 95.6%
Jayshree Periwal High School, Jaipur	2018
Grade X, All India Secondary School Examination (CBSE)	CGPA – 10/10
Jayshree Periwal High School, Jaipur	2016

SCHOLASTIC ACHIEVEMENTS

- **Financial Risk Manager (FRM) Part I** candidate; certification exam due on November 21, 2020 2020
- Secured an All India Rank of **946** out of 2.3 lakh candidates who qualified for **JEE Advanced 2018** 2018
- Secured a rank among top **0.01%** out of 12 lakh candidates who appeared in **JEE Mains 2018** 2018
- Awarded fellowship under Kishore Vaigyanik Protsahan Yojana (KVPPY) by **Indian Institute of Science, Bangalore** 2017

WORK EXPERIENCE

Credit Risk Intern | FinBox 04/2020 – 07/2020

FinBox is a digital lending software suite which enables lenders to grow their customer base through digitisation Gurgaon, India

- Worked on an NLP based active learning **SVM** model (**F1 Score = 0.95**) to tag borrowers' loan SMS as "paid" or "defaulted"
- Developed from scratch, a **logistic regression**-based **credit scoring model** using **80+** installed app data features
- Achieved an **AUC Score** of **0.64** and a **Gini Score** of **27.6** with a **Lift** of **2.6** over FinBox's proprietary credit score model
- Developed **proprietary functions** for RegEx capture, Weight of Evidence imputation, Recursive Feature Elimination etc.

Quantitative Researcher | Mudrex 03/2020 – Present

Mudrex is a GUI based algorithmic trading strategy development marketplace for the cryptocurrency markets Bangalore, India

- Developed over **30** profitable technical analysis-based **bitcoin auto-trading bots** on minute and daily **BTC/USD** price data
- Worked on more than **20** price-based and volume-based **technical indicators** like RSI, MACD, CCI, ADX, OBV, VWAP, MFI etc.
- Optimized the strategies using **performance metrics** like Sharpe Ratio, Monthly Returns, Profit Factor, Max. Drawdown etc.
- Researched and wrote **blogs** on Bitcoin Derivatives, Modern Portfolio Theory, Investor Psychology, Crypto Game Theory etc.

PROJECTS

Equity Analytics Department | StockEdge 07/2020 – Present

StockEdge is an all-in-one market analytics and research app for the Indian equity and derivatives markets Kolkata, India

- Applied **Long Short-Term Memory (LSTM) RNN** using **Keras** for predicting stock price movements using **OHLC** chart data
- Developed statistical models for predicting short term stock price sentiment using **technical** and **fundamental analysis**
- Used **NLTK** Python library to perform **sentiment analysis** of financial news and annual reports of publicly traded companies

Active Contributor | Finance Reading Group 01/2020 – Present

Finance Reading Group is a group of finance enthusiasts working on industry-relevant financial research projects IIT Kharagpur

- Attended campus knowledge sessions on financial research topics like equity, derivatives, quantitative and credit research
- Discussed an exhaustive presentation on a self-developed **credit research analysis** of Adani Ports and Logistics Ltd.
- Solved a **venture capital industry** based **financial case** on the probable success or failure of **Softbank's Vision Fund 2**

COMPETITIONS

AlphaBeta League		Stood 2nd out of over 100 participating students in a 1-month long portfolio optimization competition with a record overall portfolio return of 43.4% on Nifty stocks
Business Club, IIT Kharagpur	06/2020	
Inter IIT Tech Meet		Won gold out of 23 participating IITs for a self-conceptualized SaaS start-up idea, eSaathi – An Assistive UI Platform in Ashoka Foundation's business model competition
IIT Roorkee	12/2019	
Creative Shock Case Competition		Global top 50 out of 300 participating teams from all over the world on the financial analysis of a micro-insurance business and marketing of a textile start-up of Lithuania
ISM Lithuania	10/2019	
Open IIT Case Study Competition		Finalists in a venture capital industry-based financial case on the probable success or failure of Softbank's Vision Fund 2 due to factors like recession and AI bubble
IIT Kharagpur	08/2019	

RELEVANT SKILLS AND COURSES

Programming Languages/Libraries: C, C++, Python, R, Excel, VBA, Backtrader, Scikit-Learn, NLTK, Keras, TensorFlow, PostgreSQL
Coursework: Programming and Data Structures | Algorithms | Probability & Stochastics Processes | Foundation of Entrepreneurship*
MOOCs: Financial Institutions and Markets | Foundation of Risk Management | Quantitative Analysis | Valuation and Risk Models*

POSITIONS OF RESPONSIBILITY

Head | Technology Robotix Society, IIT Kharagpur 05 /2018 – Present

- Developed, conceptualised and prototyped the autonomous robotics competition **Tesseract** in **India's largest tech-fest Kshitij**
- Achieved a target of **40% YoY** increase in sponsorships and funding and formulated the society budget as the **Finance Head**
- **Project Head and Organiser** of the first ever **Winter School of AI and Robotics** and mentored over 100 AI and ML enthusiasts

EXTRACURRICULAR ACTIVITIES

Elected as the best leader of the School Council , managing co-curricular student affairs of Jayshree Periwal High School, Jaipur	2018
Won best athlete in the Junior Category during the Annual Sports Meet of Jayshree Periwal High School, Jaipur	2016