PRAJUAL MAHESHWARI

EDUCATION

Year	Qualification	Institute	Performance
2016 - 2020	Bachelor of Science in Economics	Indian Institute of Technology, Kanpur	9.63/10
2016	Class XII(CBSE)	Ch.Chhabil Dass Public School, Ghaziabad	95.0%
2014	Class X(CBSE)	Ch.Chhabil Dass Public School, Ghaziabad	10/10

SCHOLASTIC ACHIEVEMENTS

- Secured AIR-3691 (top 1%) in JEE (Advanced) 2016 and AIR-2662 (99.75 percentile) in JEE (Mains) 2016 among 14 lakh aspirants
- Awarded General Proficiency Award for best academic record across graduating students in Economics department Convocation 2020
- Received Academic Excellence Award thrice and attained 10 SPI for 3 semesters with A* in 11 courses for notable performance
- One of the 6 members nominated by IIT Kanpur for Youth Exchange Programme of the Ministry of Youth Affairs and Sports

CORPORATE EXPERIENCE

Dolat Capital | Quantitative Research Analyst

- Developed mathematical and statistical models using tick by tick data for market making in Indian equity markets using python
- Improved market making execution by including feature for mod-factor and modified order placement and cancelling logic with cpp
- Worked on server management and researched on model validation, quantity automation, and signal sampling of model signals

American Express | Analyst EDA

- Provided custom business-insights to strategic US merchants of American Express across travel, lodging and retail portfolios
- Spearheaded customer acquisition, covid-tracker and marketing insights for clients leveraging clustering, boosting and other ML algos
- Performed analysis for Ecomm-shift, customer profiling, and competition bench marking using hive, spark and other big data tools

Qualitative Financials | Quantitative Researcher

- Designed, implemented and deployed robust algorithmic trading strategies for live trading in US equity and derivative market
- Back-tested 50+ trading strategies based on technical indicators like Alligator, MACD, FPP, etc., stock, options, news headlines data
- Analyzed market sentiments, financial reports for trading signals and coded strategies using python API from Interactive brokers

Fidelity Investments, Chennai | LEAP Intern

- Developed an intelligent resume scanner from unstructured text of 1000+ resumes using NER extraction, EDA, TFIDF and Guided LDA
- Recorded 92% accuracy in classifying resumes across job profiles using deep learning and tracked 10+ ML models with H2O, MIFlow
- Implemented an end-to-end UI with Flask, Kibana and Elasticsearch and reduced recruitment time by 25% and saved ₹24 lakhs

Shree Tech Solutions: Complete Web Solutions, Delhi | Social Media Analyst Internee

- Created one-stop solution for 6 social media platforms including Twitter, Instagram and Youtube to provide boost for client's business
- Visualized insights for client's growth using EDA and 15+ natural language processing algorithms in python from their social handles
- Performed sentiment and time series analysis for 10+ years of client's profile and published it on a python-django integrated website

PUBLICATION

Skills

R-Package on Bayesian Quantile Regression for Ordinal Models | Mentor: Prof. Arshad Rehman

- Developed a globally used, CRAN accepted R-package (bqror), on Quantile regression for OR models to benefit the global R-community
- Underlying methodology, use-cases, and package details, etc. are submitted to Journal of Statistical Software as a research paper

TECHNICAL SKILLS

Modelling, Machine learning, Data Analysis, Financial Modelling Python, C++, C, R, Matlab, Octave, STATA, LATEX

Languages **Key Academic Projects**

SURGE IIT Kanpur | Mentor: Prof.Debayan Pakrashi May-Jul'18 Impact of using System of Rice Intensification (SRI) Technology in Bangladesh - a rocky road to success Objective Performed Impact and Interaction analysis of SRI adoption on food security and well being of farmers using STATA Approach Untreated Effects analysis demonstrates benefits of SRI adoption spread to non-treated farmers in Bangladesh • Evaluated the Causal Effects on treatment and training groups using TOT and ITT analysis with IV and OLS Conclusions SRI adoption demonstrated spillover effect and correlation of over 90% with production, food security and well being May-Jul'18

NYU-RTE: New York University | Mentor: Prof. Nasir Memon

- Investigated the existence of master voice prints using text-independent speaker verification to prevent bio-metric phishing attempts
- Ranked 7000+ celebrities based on the uniqueness of their voice signature by training and testing all the models on Vox-Celeb data set

Proved that Neural networks based models surpass all other 4 customized state-of-the-art implementations of speaker verification

EXTRA CURRICULAR ACTIVITIES

Coordinator FAC, IITK	 Revived the latent club, managed a team of 20 members, and an annual budget of ₹50k, to promote financial literacy Organized 10+ sessions, competitions, published newsletters to address and promote the fin appetite of campsites Organized a 2-day non-core weekend with talks, workshops by experts and competitions sponsored by ICICI
Social	 Student Guide: Mentored 5 students on emotional and academic fronts for an easy transition to IITK Company Coordinator: Assisted companies in conducting internship interview process for over 500 students

Aug'20-Aug'21

Sep'21-Present

Mar-Aug'20

Mav-Jul'19

Nov-Dec'18

May'19-Feb'20