YASH LADDHA

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EDUCATIONAL QUALIFICATIONS

YEAR	DEGREE	INSTITUTION	CGPA/%
2013-2018	B.S.-M.S.: Department of Economic Sciences	Indian Institute of Technology Kanpur	**UG-8; PG-8.5**
2012	CBSE XII: AISSCE	Shree Kasera Bazar Vidya Niketan	90.6%
2010	CBSE X: AISSE	New Digamber Public School	9.8

SCHOLASTIC ACHIEVEMENTS

- Offered a role of consultant by **J-PAL SA(South Asia)** region for working on Bihar Electricity Project — Jun'17
- Awarded a placement offer from **Futures First** with a package worth **INR 10.5 lacs** — Dec'16
- Secured All India Rank **2884** in **IIT JEE** Advance among 1.6 million applicants — 2013
- Recipient of **GATE** scholarship worth **INR 1.48 lacs** for MS research and assistantship — 2017-18
- Recipient of **Merit-cum-Means (MCM)** scholarship worth **INR 3.2 lacs** for meritorious academic performance — 2013-2017

MASTER'S PROJECT

- **Resource Use Efficiency of Wheat Production: A Data Envelopment Analysis (DEA)** *(Aug'17-Jun'18)*
  - Analysed primary agricultural data pertaining to 295 farmers of Bhadohi, Chandauli and Fatehpur districts of Uttar Pradesh
  - Employed **DEA-LP (Linear Programming)** to calculate Input-Oriented, Output-Oriented, Input-Specific technical efficiency
  - Computed non-radial Pareto-Koopmans and Graph Hyperbolic measure of technical efficiency using Taylor-series approximation
  - Estimated Nitrogen fertiliser as most inefficiently used input in relation to cultivated land, seed and labour expense

INTERNSHIPS

- **Montpellier Business School, France | Research Assistant | Mentor: Dr. Aviral Tiwari** *(Jun'17-Jul'17)*
  - Impact of Information Communication Technology (ICT) on Labour Productivity: A Panel Data Analysis
    * Analysed panel data from 2000-2015 for 98 countries grouped as low, middle and high income countries
    * Applied fixed and random effect model in STATA based on result of Durbin-Wu-Hausman test on pooled and grouped data
    * Found telephone users for low and internet users for middle, high income countries to have positive impact on productivity
  - Impact of Information Communication Technology and Globalisation on CO_2 emissions
    * Employed panel Granger causality test in Eviews to find causal relationship among variables for policy recommendations
    * Spotted bidirectional causality between globalisation and CO_2 emissions, unidirectional causality from ICT to CO_2 emissions
    * Concluded globalisation has a negative impact whereas ICT has positive impact on CO_2 emissions using fixed effect model

- **Edelweiss Financial Services Limited, Mumbai | Quantitative Analyst** *(May'16-Jun'16)*
  - Implemented **Principal Component Analysis** in python for NSE data to find directions of maximum variance
  - Evaluated correlated pairs of stock by selecting pair with least **L2 norm** in directions found using PCA
  - Cross validated screened pairs using **co-integration test** on historical price data of last quarter
  - Analysed returns of diversified portfolio by trading on historical price data of last quarter

ACADEMIC PROJECTS

- **Impact of Inflation and Investment on Economic Growth,** *Dr.Somesh Mathur, Economics, IIT Kanpur* *(Dec'15-Apr'16)*
  - Employed econometric models like fixed effects and random effects model on panel data of 39 countries from 1960-2013
  - Instrumented investment to GDP and life expectancy variables with their lagged values in order to deal with endogeneity
  - Observed that Inflation show negative association and investment to GDP show positive association with economic growth
- **Predicting the word from Brain Activity,** *Dr.Piyush Rai, Computer Science, IIT Kanpur* *(Sep'16-Nov'16)*
  - Aimed to predict the word subject is thinking from a choice of two words by using fMRI for 300 subjects
  - Implemented Ridge Regression in MATLAB to correlate brain activity with semantic features and attained 73.33% accuracy
  - Employed feature selection algorithm Lasso to reduce the number of independent variables and achieved 75% accuracy
- **Impact of Credit on Development,** *Dr.Sohini Sahu, Economics, IIT Kanpur* *(Dec'15-Apr'16)*
  - Analyzed Credit Market of rural households of 28 Indian states affected by irregular interest rates and trapped in debt
  - Indicated lack of awareness, illiteracy and improper implementation of the policies as major cause of growing informal credit

RELEVANT COURSES

- **Economics**: Microeconomics, Macroeconomics, Econometrics, Experimental and Behavioural Economics, Environmental Economics, Production Economics, Public Economics, Development Economics, Mathematical Economics, Economic Growth theory, Empirical methods in applied microeconomics, Game theory

- **Statistics:** Probability and Statistics, Stochastic Process, Statistical Simulation and Data analysis, Non Linear regression
- **Computing:** Data Structures and Algorithms, Machine Learning Techniques, Introduction to C

TECHNICAL SKILLS

- **Programming Languages**: MATLAB, R, Python, C
- **Statistical Packages and other tools**: STATA, Eviews, LaTeX, MS-Office, AutoCAD

POSITIONS OF RESPONSIBILITY

- **President, Hall of Residence - I, IIT Kanpur**, *(Aug'16-Jun'17)*
  - Supervised staff of **70 people** to enhance work by holding weekly meetings and rewarding best performers
  - Managed budget of **INR 2.5 lacs** to organise hall celebration day 'Shubhaarambh' for 600 residents
  - Planned budget of **INR 4 lacs** for overall maintenance of hostel expenditure throughout the year
  - Reduced **20%** energy consumption after installing **600+ LED** tube lights worth **INR 5 lacs** for complete hostel
- **Head Campus, Entrepreneurship Cell, IIT Kanpur** , *(May'15-May'16)*
  - Worked with 13 membered core team to successfully conduct Entrepreneurial fest with a budget of **INR 5 lacs**
  - Led team of 10 volunteers to conduct competitions like Pitch your product, SoCha and quizzes throughout the year
  - Organised monthly Start-up 101 lecture series by young entrepreneurs to teach basics of entrepreneurship

EXTRA-CURRICULAR ACTIVITIES

- **Taught Mathematics** and **Science** to underprivileged children at **Prayas**, an Student Gymkhana's initiative, IIT Kanpur
- Secured 12th position in a **21 km Half Marathon** among 200 participants organised by Adventure Club, IITK
- Completed **4200m Druk Path Trek** in Bhutan in 5 days organised by Adventure Club, IIT Kanpur
- Participated in group dance at **Dance Extravaganza 2016** and **2017** organised by Dance Club, IIT Kanpur