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# TUTAN AHMED

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## **CURRENT POSITION**

### **Faculty Position**

Visiting Assistant Professor at Vinod Gupta School of Management at Indian Institute of Technology Kharagpur

## **PAST POSITION**

### **World Bank (Consultant)**

Data Scientist Consultant at World Bank - Consultant in Education Global Practice & Social Protection & Labor SAR Unit Since May, 2015 till June, 2018

### **United Nations Development Program (Consultant)**

Skills & Business Development, Since June, 2015 till June, 2017

## **RESEARCH INTEREST**

Education and Skill Development, Labor Market, Machine Learning, Deep Learning, Behavioral Science, Product Development

## **AWARDS**

Received research grant of \$ 10,000 for research from South South Research Cooperation, at CLACSO (Grant sponsored by SIDA) for Evaluation of an Education Program in India

Research grant of \$ 40,000 for early career research, at IIT Kharagpur (Internal Grant approved in principle)

Invitation as a Visiting Scholar in University of Cologne, Cologne, Germany from April-June, 2016 with DAAD Fellowship

Ranked 45th in West Bengal Council for Higher Secondary Education out of .4 Million students in 2003

Ranked 27<sup>th</sup> out of .6 million candidates in West Bengal Secondary board Examination in 2001

1st Class Award in All India Science Talent Test in consecutive years from 1995 to 2001

## **ACADEMIC EXPERIENCE**

### **Indian Institute of Management Calcutta**

PhD in Public Policy & Management from, India 2009-2015

Area of Work: Econometric Modeling on education & labor market using National Databases

CGPA: 7.42/9 (in Major Area)

### **Jadavpur University**

First Class in Bachelor of Engineering, Production Engineering, May, 2003 - June, 2007

### **Ramakrishna Mission Residential College Narendrapur**

High School with Science & Statistics May, 2001 - April, 2003 (with State Board Rank)

### **Basirhat High School**

Secondary education June, 1995 to March 2001 (with State Board Rank)

## **PUBLICATIONS**

- Ahmed, Tutan: “Employment Growth/ Skill Requirement Estimation in India: A Non-Traditional Approach” accepted for publication in Australian Journal of Labor Economics, 21.3 (2019)
- Ahmed, Tutan “Labor Market Analysis Using Big Data: A Case of A Pakistani Online Job Portal”(with Norihiko Maksuda & Shinsaku Nomura), in World Bank Discussion Paper Series, forthcoming
- “Return to General Education and Vocational Education & Training in Indian context: Policy implications” (with Professor R. Chattopadhyay) in International Journal of Educational Management, 30.3 (2016): 370-385
- “Labor Market Outcome for Formal Vocational Education and Training in India: Safety Net and Beyond” – in IIMB Mgt. Review, 28.2 (2016): 98-110
- “U Shaped Curve for Job Search duration and Level of Education in India” in Indian Journal of Labor Economics, 58.3(2015): 433-449

- “Participation in Vocational Education and Training in India: A Case of Downward Career Mobility”, (With Professor R. Chattopadhyay & Professor B. Abraham) in Indian Journal of Industrial Relation, forthcoming
- “Socio-Economic Impact of VET: Are Students Interested in Joining Vocational Education and Training in India – In the context of Skilling Mission in India” in India: Preparation for the World of Work, (2016): 331-344, Springer Fachmedien Wiesbaden
- “Decline of formal vocationally trained manpower in India during past decade- an exploratory analysis ” – India: Science & Technology, (2014) Vol. 3, Cambridge Univ. Press
- “Capacity Building in Indian education” – in Commodity Vision, 4.2, (2010): 14-22

### **PAPERS & PROJECTS IN PROGRESS**

- Ahmed, Tutan: “Evaluation of a Job Market Training Program (Modular Employability Scheme) by Government of India: Should Government Invest in skill training programs”, review and resubmit from Journal of Vocational Education and Training
- Ahmed, T: “How ‘Accumulated Baggage’ and ‘Information Asymmetry’ influences Career Decisions: A Career choice Model in India” submitted in Journal of Human Resource
- Should Government of India Continue to Invest in Vocational Education & Training: An Examination from different Empirical and Theoretical Perspective, to be submitted
- Ahmed, Tutan: “High Unemployment among Higher Educated: A Paradox?” submitted in International Labor Review

### **PROFESSIONAL EXPERIENCE**

#### **United Nations Development Program (UNDP): Consultant since June, 2015 till June, 2017**

Key Assignments:

- i) develop a data driven skill requirement forecasting model: Applying GIS and Machine learning technology using internet data and multiple other data sources for forecasting
- ii) Provide advisory support to Ministry of Skill Development & Entrepreneurship, Government of India (till February, 2017)

**Ministry of Skill Development & Entrepreneurship (As UNDP Consultant): June 2015 to February, 2017**

Key Assignments:

- i) To Support the Ministry of Skill Development & Entrepreneurship, Government of India in various inter-governmental consultation on potential skill requirement by 2022 & to develop Skill Action Plan for India
- ii) To consult with Ministry of Statistics on future data collection on education and labor market,
- iii) To support the development of Labor Market Information System (LMIS) for India
- iv) To serve as committee member for various initiatives

**World Bank: Consultant since May, 2015 till date**

Key Assignments:

- i) Data Scientist role in prediction of Labor Market in Pakistan using data from [rozee.com](http://rozee.com)
- ii) Econometrician role in understanding feasibility analysis for investment in different schemes in the area of skill development, labor market, and social sectors using different Socio-economic survey data/ various CENSUS data

**OTHER EXPERIENCES**

**National Planning Commission, Government of India: Internship from Dec., 2011 to March, 2012**

Key Assignment: Internship with Adviser of Ministry of Human Resource Development during 12th national plan formation

**IBM India Pvt. Ltd: System Engineer from December, 2007 to June, 2009**

Key Assignment: software packaging, software testing

**New Allenberry: Internship from June to July, 2006**

Key Assignment: Study system of production for gear manufacturing

**Webel Technology: Internship from June to July, 2005**

Key Assignment: Study & recommendation for improvement of manufacturing shop floor operation

**OTHER ACTIVITIES**

- Founder & President of Public Policy & Politics, special interest group at Indian Institute of Management Calcutta, 2013-2014

- Elected as Representative of the Fellow students at Indian Institute of Management Calcutta, 2010-2011
- Teaching Assistantship in two courses of Public Policy Courses: “Social Development & Social Policy” & “Indian Economic & Political History” in 2013
- Cofounder of a charity organization “Ahmed Foundation” to provide scholarship to poor but meritorious students, near Kolkata, in 2017

### **PROGRAMMING & SOFTWARE**

- General Programming: C, STATA, Python, R

### **LANGUAGE**

- Proficient in English, Bengali, Hindi, & Basic level in Spanish

### **HOBBIES**

- Reading (non-fiction), Meditation, Traveling, Community Work, Physical Exercise, Learning new skill sets

### **CONFERENCES & INVITED LECTURES**

- “Should Government of India Continue to Invest in Vocational Education & Training” India-China Conference, New Delhi, January 2019
- “Future of Education” at World Bank Youth Summit, Washington DC, December 2018
- “A Methodological prescription for forecasting the job growth for the labor market in India: Using Multiple Data Sources and Machine Learning Technique” at 59th Annual Conference of Indian Society of Labor Economics, in Thiruvananthapuram, Kerala, December 2017
- “Job growth/ skill requirement prediction and aspiration mapping with data science” at 8th edition of Aegis Graham Bell Awards in Mumbai, November 2017
- “Skill Requirement Forecasting: Use of Data Intelligence”: Keynote speaker at Workshop with the District Administration, in Nagpur, Maharashtra, June 2017

- “Skill Requirement Forecasting: Use of big data & machine learning” in Data Science Congress in Mumbai, June 2017
- “Labor Markets in South Asia: Evidence and Policy Lessons” and “ IZA/DFID Short Course on Program Evaluation” in Dhaka, Bangladesh, December 2015
- Presenting the baseline and pilot results – “Evaluation of Modular Employability Scheme” using Propensity Score Method” in VII Conferencia Latinoamericana y Caribeña de Ciencias Sociales, in Medellin, Columbia, November 2015
- “Individual, Market and Government – Mapping Labor Market for the formal VET trained manpower”, at CESP-YSS, Jawaharlal Nehru University, Delhi, March 2015
- “Formal Training, Market & Institution in India” in International TVET Conference, Bhopal, February 2015
- “ Occupation specific “Crowding Out” of General and Technical Educated Manpower in India” in World Mgt. Conference, IIM Kozhikode, Kozhikode, November 2014
- “ Participation in Formal Vocational Training in India – A matter of Socio-Economic Privilege” in Social Choice & Welfare 12th Meeting, Boston, July 2014
- “Return to General education versus Vocational Education and Training in India” in Indo-Canadian Shastri Institute Annual Meeting, Delhi, June 2014
- “Socio-Economic Benefit of Vocational Education and Training in India” in International Business & Social Science Conference, Cancun, Mexico, December 2013
- “Atypical Labor Market outcome of the Vocational Education and Training Manpower in India” in Indian Academy of Management; Ahmedabad, December 2013
- “Safety Net Theory and labor Market for Vocational Education and Training Manpower in India” at Doctoral Colloquium at IIM Ahmadabad, Ahmedabad, December 2013
- “Informal sector training model, Gems and Jewelry industry in West Bengal & Delhi” at “PowertoEmpower” by National Skill Development Corporation, New Delhi, January 2013

- “Demand Situation of Vocational Education and Training in India” – policy paper presented on invitation at National Institute of Science Technology and Development (NISTADS), Government of India, New Delhi, March 2012

#### ▪ **REFERENCES**

##### **Professor Raghendra Chattopadhyay**

**Designation:** Professor (Retired), Public Policy & Management Group at IIM Calcutta

**Relationship:** Thesis Supervisor

**Link:** <https://www.povertyactionlab.org/chattopadhyay>

**Email:** [rc@iimcal.ac.in](mailto:rc@iimcal.ac.in), [r.chattopadhyay@gmail.com](mailto:r.chattopadhyay@gmail.com)

**Phone:** On request

##### **Professor Ajoy Kumar Ray**

**Designation:** Professor, Electronics and Electrical Communication IIT Kharagpur

**Relationship:** PI/ CO-PI in current projects

**Link:** <https://scholar.google.co.in/citations?user=MZIFY7AAAAAJ&hl=en>

**Email:** [ray.ajoy2018@gmail.com](mailto:ray.ajoy2018@gmail.com), [akray@ece.iitkgp.ac.in](mailto:akray@ece.iitkgp.ac.in)

**Phone:** On request

##### **Mr. Clement Chauvet**

**Designation:** Chief of Skills & Business Development, United Nations Development Program

**Relationship:** Supervisor at the United Nations Development Program

**Link:** <https://www.linkedin.com/in/clementchauvet/>

**Email:** [clement.chauvet@undp.org](mailto:clement.chauvet@undp.org)

**Phone:** On request