

Kumud Tripathi

CONTACT INFORMATION	Computer Science IIT Kharagpur, West Bengal 721302, INDIA	+91-9454854199 kumudiitkgp@sit.iitkgp.ernet.in
RESEARCH INTERESTS	Machine Learning, Speech Processing, Computer vision and Image Processing, Soft Computing, Design and Analysis of Algorithms, Big Data, Deep Learning	
EDUCATION	<p>Ph.D., Computer Science and Engineering, IIT Kharagpur, Pursuing since July 2015</p> <ul style="list-style-type: none">• Area: <i>Speech Processing</i>• Advisor: Dr. Krothapalli Sreenivasa Rao <p>M.Tech., Robotics(Information Technology), IIIT Allahabad, 2013-2015</p> <ul style="list-style-type: none">• Thesis Topic: <i>Continuous Indian Sign Language Gesture Recognition</i>• Advisor: Prof. G.C. Nandi• CGPA: 9.59/10 <p>B.Tech., Computer Science and Engineering, SR Group of Institution, Jhansi, 2007-2011</p> <ul style="list-style-type: none">• Area: <i>Fingerprint Recognition using Chain coded string matching used for securing our system.</i>• Advisor: Prof. Vishal Nagar• Percentage: 77.12% <p>Higher Secondary Examination (H.S), Science, Jawahar Navodaya Vidyalaya, Bahraich, 2006</p> <ul style="list-style-type: none">• Percentage: 79.00% <p>Madhyamik Examination, Jawahar Navodaya Vidyalaya, Bahraich, 2004</p> <ul style="list-style-type: none">• Percentage: 77.00%	
RESEARCH PROJECTS	<p>Ph.D Projects</p> <ul style="list-style-type: none">• Emotion Classification using Deep Neural Network• Vowel recognition in Hadoop Spark• Language Identification using Gaussian Mixture Model <p>M.Tech. Projects</p> <ul style="list-style-type: none">• Face Recognition using Hidden Markov Model• Classification on IRIS DataSet using Naive Bayes Classifier in Matlab• Clustering using K-Means and Fuzzy C-Means on IRIS DataSet in C and Matlab• Optimization using Genetic Algorithm on IRIS DataSet in C and Matlab• Implementation of Support Vector Machine classification algorithm in C and Matlab• Implemented Image segmentation algorithm on MATLAB	
ACCEPTED PUBLICATIONS	<ul style="list-style-type: none">• Kumud Tripathi, Neha Baranwal and G.C. Nandi. <i>Recognition and Interpretation of continuous Indian sign language gesture recognition</i> accepted in Elsevier Procedia 11th international multi-conference on information processing (IMCIP) (21-23 August 2015) in Bangalore.• Kumud Tripathi, Neha Baranwal and G.C. Nandi. <i>Continuous dynamic Indian Sign Language gesture recognition with invariant backgrounds</i> accepted in IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI) (10-13 August 2015) in Chennai.• Neha Baranwal, Kumud Tripathi and G.C. Nandi. <i>Possibility theory based continuous Indian Sign Language gesture recognition</i> accepted in IEEE Region 10 Conference, TENCON (1-4 November 2015) in Macau.	
ACHIEVEMENTS	<ul style="list-style-type: none">• Departmental rank-2 in M-Tech 2015	

- Selected for the participation in 6th Science Conclave/Inspire Internship Program, IIIT Allahabad on 14th December 2013
- Got the honor to perform in the SERB Sponsored 1st Summer School on Robotics, IIIT Allahabad on (7-13) June 2014
- Received Travel Grant for 11th international multi-conference on information processing (IMCIP 2015) (21st-23rd August 2015)
- Qualified GATE-2013 standing in first 0.1% students
- Departmental rank-1 in B-Tech (Computer Science) 2011
- Award for Outstanding Academic Performance in B-Tech (Computer Science) 2010
- Selected for the participation in Microsoft Technology Presentation Session conducted under the Microsoft Virtual TechDays Program at SR Group of Institution, Jhansi on (17-19) September 2008
- Batch rank-1 in B-Tech first year (2007)
- Higher Secondary Examination Topper from Jawahar Navodaya Vidyalaya, Bahraich, in 2006
- Two times National player in Volley Ball organized by Navodaya Vidyalaya Samiti Regional Office Lucknow

WORK EXPERIENCE

Software Developer

- Nature of responsibilities: Software User Interface and Report Development
- Duration: July 14,2011 - March 02,2012
- Organization: Alacron Computers Consultant

SUMMER TRAINING

- I have done summer training from BSNL from 1st July to 28th July 2011 and worked on the internet services of BSNL, WLL mobile and mobile communications.
- Two months training in JAVA and J2EE from HCL Info system Pvt Ltd.

TECHNICAL SKILLS

- Languages and Tools: *C, C++, Java, C Sharp, HTML, Python, MATLAB, Hadoop (MapReduce, Spark), Lasagne*
- Database: *SQL Server, MS Access, Apache Tomcat, Webots, Sharepoint*
- Operating System: *Windows XP, Windows 7/8/10, Ubuntu 14.04*

ACADEMIC ACTIVITIES

- Role: Teaching Assistance at Computer Science and Engineering in IIT Kharagpur
- Role: Teaching Assistance at Information Technology in IIIT Allahabad

COMMUNITY SERVICES AND RESPONSIBILITIES

- Cultural Activity Organizer, Robotics Department, IIIT Allahabad (2013-2015)
- Departmental Representative, Computer Science, SR Group of Institution, Jhansi (2008-2011)
- Head of Sports, Jawahar Navodaya Vidyalaya, Bahraich (2004-2006)

EXTRA- CURRICULAR ACTIVITIES

- National Volleyball player at school level
- Regional Table-Tennis Player at school level
- Organizing college freshers party, farewell and festivals
- Got the second position in Face Painting
- Active member of Bharat Scouts and Guides Jawahar Navodaya Vidyalaya, Bahraich

PERSONAL PROFILE

- Name: Kumud Tripathi (Female)
- Father's name: Dr. Mahendra Tripathi
- Date of Birth: 3rd Mar 1990
- Permanent Address: B-38, Vikas Nagar, Gorakhpur, UP India, 273007
- Nationality: Indian
- Language Known: Hindi, English