

Dr. Deepak Kumar Singh

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Brief Profile

- PhD from IIT Kanpur in the field of **Artificial Intelligence**.
- More than **Nine years** of experience in fields of Industry and Academics.
- More than **Fifteen Papers** published in International Journals and Conferences.
- Successfully completed Two research projects funded by Government of India.
- Successfully conducted Four **Corporate Trainings**
- **IT Consultant** of Uttar Pradesh Public Libraries Cell and Two other Private Limited Companies.
- Big Data University Certified **Hadoop Developer**
- AMCAT Certified **Data Processing Specialist**

Educational Profile

- **Ph.D.**, Department of Electrical Engineering, May 2013
Indian Institute of Technology Kanpur (IIT), India. (**CPI: 8.0/10**)
- **M.Tech. (Intelligent Systems)**, Department of Information Technology , July 2006
Indian Institute of Information Technology Allahabad (IIITA), India. (**CPI: 8.3/10**).
- **C. C. S. University, Meerut, U.P., India. (Marks: 69.9%)**
B.E. (Electrical Engineering), Department of Electrical Engineering, July 2002

Academic Experience

- **Adjunct Professor in Jaipuria Institute of Management**, Lucknow (June 2017-till date).
- **Associate Professor in Integral University**, Lucknow (October 2015-June 2017).
- **Associate Professor & Head Of Department (Computer Science and Engineering) in BBD University**, Lucknow (April 2011-June2014).
 - Also headed CSE department in one more college of BBD Group of Institutions, Lucknow.
 - Active member of Board of studies of Department of Electrical Engineering.
 - Head of Board of studies of Department of computer Science.
 - Designed and taught undergraduate and post graduate courses.
- Guest Faculty in **Automotive Research Association of India (ARAI)**, Pune
- **Research Associate and Project Lead**, DoRD , IIT Kanpur (January 2006-December 2016)
- **Software Developer**, Shashi Infosys , Noida (August 2002-May 2004)
- **Guiding 4 PhD** students enrolled in two different Universities.

Administrative Experience

- **Chairman, IT Committee** , Jaipuria Institute of Management, Lucknow
- **Director (In charge)**, BBD Engineering College, Lucknow (September 2013- June 2014)
- **Head, Corporate Relations**, BBD Group of Institutions, Lucknow. (September 2011- June 2014)
 - Lead the training and placement team for more than one year.
 - BBD got **employability award** during the tenure.
 - Taken numerous initiatives to train the students and faculty.
 - Initiated industry and academic tie ups.
- **Head, Campus Automation and Smart card project**, BBD Group, Lucknow. (September 2011- June 2014)

Consultancy Projects

- Development and implementation of **MOODLE based Learning Management Solution** for Jaipuria Institute of Management, Lucknow.
- Implementation of **learning Management Solution** in BBD Group of Institution, Lucknow.
- Implementation of assessment platform for Society of Automotive Engineers (**SAE**) for their prestigious exam known as **BAJA**.
- Development of interactive, animated &LMS compatible learning material for **Mahindra and Mahindra**.
- Configuration of Linux Based **Mail Server** For Integral University

Research Projects

- Audio based condition monitoring and fault diagnosis of internal combustion engines. (Project funded by **TIFAC**, Government of India), Completed on August 2007.
- Separation of Audio and Image mixtures using neural networks. (Project funded by **Department of Information Technology, Government of India**), Completed on December 2009.
- Development of low cost academic device (Known as **AKASH** Tablet)
- Development of **Wireless Sensor network for protection of Wildlife and Forest in association with IIT Allahabad**

Research Publications

Journals:

- “**Review on Assistive Reading Framework for Visually Challenged**” Avinash Verma, Deepak Kumar Singh, Nitesh Kumar Singh accepted for publication in SPRINGER Advances in Intelligent System and Computing.
- “**Text Deblurring Using OCR Word Confidence**” , Avinash Verma, Deepak Kumar Singh International Journal of Image, Graphics and Signal Processing (IJIGSP) VOL.9, pp. 33-40, 2017 ,DOI: 10.5815/ ijigsp.2017.01.05
- “**Parameters of Automated Fraud Detection Techniques During Online Transaction**”, Vipin Khattri, Deepak Kumar Singh, Emerald Journal of Financial Crime. (Communicated)
- “**Load Forecasting Using New Error Measures In Neural Networks**”. Deepak Kumar Singh, Md. Shiblee, International Journal of Scientific & Engineering Research Volume 2, Issue 5, May-2011
- “**A Load Shedding Methodology Based on Customer Damage Function, Current Sensitivity and Reactive Power Management.**” Deepak Kumar Singh, R. Shekhar, P. K. Kalra, IEEE Transactions on Power Systems (Final Copy submitted) .
- “**Brain Signal Analysis: A Statistical Approach**”, Deepak Mishra, **Deepak Kumar Singh**, Prem K. Kalra, Indian Journal of Computational Neuroscience - 2006.

International Conferences: (Best Five)

“A Novel Distance Authentication Mechanism to Prevent the On-Line Transaction Fraud”, Vipin Khattri, Deepak Kumar Singh, got Best Paper Award in International conference on advances in the field of health, safety, fire, environment, allied sciences and Engineering (HSFEA 2016), November 18-19, 2016, UPES, Dehradun

"Fingerprint Separation: An Application of Independent Component Analysis", Meenakshi Singh, Deepak Kumar Singh, Prem K Kalra, SPIE Symposium on SPIE Defense and Security Symposium, 16-20 March 2008, Orlando, FL.

"Face recognition using facial expression: a novel approach", Deepak Kumar Singh, Priya Gupta, Dr. U.S. Tiwari SPIE Symposium on SPIE Defense and Security Symposium, 16-20 March 2008, Orlando, FL.

“Multilayer Generalized Mean Neuron Model for Blind Source Separation”, Meenakshi Singh, Deepak Kumar Singh, Prem K Kalra, IEEE International Symposium on Intelligent Control, 1-3 Oct, 2007, Singapore.

"Separation of Image Mixture using Complex ICA", Deepak Kumar Singh, Shipra Tripathi and Prem K. Kalra, ASID -06 (The 9th Asian Symposium on Information Display), 8-12 Oct, New Delhi, India.

“Efficient and cost effective tracker in monitored area network [t-man] using RFID” Saurabh Pandey, Deepak Kumar Singh, IFIP International Conference on Wireless and Optical Communications Networks, 2006 11-13 April 2006.

Prominent Teaching Assignments

- Conducted two **Corporate Trainings** in on Data Analytics in association with IIA (Indian Industries Association and AKWL)
- Taught Artificial Intelligence, Pattern recognition, System Modelling and Simulation to UG/PG Engineering students.
- Taught MATLAB in Quality Improvement program in IIT Kanpur. Topics Covered:
 - Basics of MATLAB
 - Advance Maths and plots using MATLAB
 - Digital Image Processing Toolbox
- Taught MATLAB in QIP program funded by IEEE. Topics Covered:
 - Neural Networks Toolbox
 - Fuzzy logic Toolbox
 - ANFIS
 - SIMULINK
- Took lectures regarding modelling in MATLAB in brain storming session for Automobile companies by IIT Kanpur

Awards

- Won “**Aspiring Minds**” award by a leading assessment agency of India.
- Invited session on “**Doordarshan**”, Lucknow on career prospects for students.
- Invited talk on **Cyber Security** in BBAU Lucknow
- Nominated as a member of Indian delegation for **prestigious SAARC-IAESTE** Internship Program, Japan.

Professional Associations

- Member IEEE (The Institute of Electrical and Electronics Engineers is the world’s largest professional association with its corporate office in New York City and its operations center in Piscataway, New Jersey)

- IEEE Technical Committee on RFID
- IEEE Young Professionals
- Association of Knowledge Workers of Lucknow
- European Association for International Education

Computer Proficiency

Tools	: MATLAB, Lab VIEW, R, SPSS, MSP.
Programming Language	: C, JAVA, PHP
Hardware	: Arduino, RaspberryPi, FPGA

Personal Profile

Date of Birth	: 26 th January 1980
Languages Known	: English, Hindi.
Hobbies	: Playing Chess.
Marital Status	: Married

Declaration:

I hereby declare that the information furnished above is true to the best of my knowledge.

(Dr. Deepak Kumar Singh)