UTKARSH GUPTA

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Pursuing M.Sc. (Intelligent Systems) at the Technical University, Kaiserslautern. Currently working as a research assistant at DFKI (German research center for Artificial Intelligence). 2.5 years of experience of working in software engineering teams. Looking for a full-time position from June 2017.

WORK HISTORY

AUG. 2016 - PRESENT **DFKI GMBH, KAISERSLAUTERN**, **GERMANY**
Research Assistant

- **Research Project:** (Aug 2016 – Dec 2016)
  Worked on a research project to improve the reconstruction obtained from any previous approach to obtain reconstruction. This work was motivated to obtain reconstruction with minimum average error.
- **Smart Eye Tracking:** (Dec 2016 – Present)
  Currently working on Smart Eye Tracking project to perform calibration on multiple cameras to obtain synchronized data and estimate the human gaze within a controlled environment.

JUL. 2012 – JAN. 2015 **MOTHERSONSUMI INFOTECH & DESIGNS LTD., NOIDA, INDIA**
Software Engineer

- **Web Based Experience:**
  – Integration of Team Foundation Server (TFS) in an ASP.Net website using Web service (Windows Communication Foundation Service).
  – Experience in requirement gathering and client support.
  – Worked on the Migration of website project and provided further maintenance and support as per client's guidelines.
- **EDI-Business Integration Based Experience:**
  – Configuration management on the server along with maintenance and monitoring of the servers.
  – Creation of Linux scripts for file management.
  – Creation and deployment of maps used for extracting business data.
  – Worked closely with the team and client to analyze and document the requirements.

EDUCATION

Apr. 2015 – PrESENT **TECHNICAL UNIVERSITY KAISERSLAUTERN**, Germany
M.SC. **Informatik (Intelligent Systems)**

- Most of the courses taken in the field of Machine & Deep Learning, Augmented Reality, Computer Vision.
- Other courses taken: Artificial Intelligence, Collaborative Intelligence, Case Based Reasoning, Semantic Technology, Information Retrieval, Distributed Data Mining, Embedded Intelligence, Intelligent User Interface, Object and People Tracking, 3D Computer Vision.
- Additional course taken in "Machine Learning" offered at Coursera by Stanford University.
- Master's Project: Dense Uncalibrated Perspective Reconstruction of Non-Rigid Structure from Monocular Video.
- Master's Thesis: Deep Learning Approach to find the similar images to enhance online shopping experience.

Jul.2008 – Jun.2012	**KRISHNA ENGINEERING COLLEGE, GAUTAM BUDDH TECHNICAL UNIVERSITY, GHAZIABAD, U.P., INDIA**
	B.Tech. Computer Science Engineering

- Graduated in first division with 73.80%.
- <u>Other courses taken:</u> Operating System, Computer Networks, Design and Analysis of Algorithms, Digital Image Processing, Artificial Intelligence
- Completed 5 week training and project course on the .NET (Framework 3.5) at Hewlett-Packard during June-July 2010.
- Vocational training at Hindustan Aeronautics Limited, Kanpur on Enterprise Resource Planning.
- Active participator in many sports activities.

Apr.2007 – Mar.2008	**DR. VIRENDRA SWAROOP EDUCATION CENTER, KANPUR, U.P., INDIA**
	Indian school certificate examination (XIIth)

- Taken courses like Physics, Chemistry, Computer Science and distinction in Mathematics
- Achieved first class with 69.8%
- Active participator in many sports activities.

Apr.2005 – Mar.2006	**DR. VIRENDRA SWAROOP EDUCATION CENTER, KANPUR, U.P., INDIA**
	Indian school certificate examination (Xth)

- Scored 82% marks (first class) with distinction in Mathematics and Science.
- Active participator in many sports activities.

SKILLS

Languages:	Python, C, C++, MatLab, Octave
Tools:	GIT, SVN, Team Foundation Server, SQL Server 2008, EDI Tools (ODEX and XLATE), LaTeX, Torch (LUA), Caffe, Qt creator
Familiar with:	CMake, OpenCV, C++ performance boosting libraries like Open Omp, Eigen, boost etc.
Previously worked on:	HTML, JavaScript, CSS, ASP.net, ADO.net, WCF Web Service, VB.net

LANGUAGE

English:	Full professional proficiency
German:	Limited working proficiency

CO-CURRICULAR / HOBBIES

- Winner of first prize at Intra-College Basketball competition
- Organized blood donation camp and also an active blood donor
- Attended seminar on Inter cultural competence at Pftalz academy 2016 for improving inter cultural communication
- Hobbies include a lot of sports like cricket, basketball,football etc. & computer games

RESEARCH PUBLICATON

Paper on *"Dense Uncalibrated Perspective Reconstruction of Non-Rigid Structure from Monocular Video"* accepted in VISAPP conference, 2017.

REFERENCES

Available on request.