Apurva PATHAK

PERSONAL DATA

PLACE AND DATE OF BIRTH:	Jashpur Nagar, India	10 July 1991
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OBJECTIVE

To build a career in the field of Computer Science which can accommodate my knowledge of Machine Learning and Data Mining.

EDUCATION

APRIL 2013
Undergraduate (Bachelor of Technology) in COMPUTER SCIENCE & ENGINEERING
National Institute of Technology, Rourkela, India
CGPA: **9.50/10** - 2nd in the department out of 75 students

APRIL 2009
High School (Class 12) at **Krishna Public School**, Bhilai, India
PERCENTAGE: **90.0%**

APRIL 2007
Secondary School (Class 10) at **Deosharan Public School**, Jashpur, India
PERCENTAGE: **88.0%**

RESEARCH EXPERIENCE

MAY '15
Presented a poster on *A City Traffic Dashboard using on Social Network Data* at **Machine Learning and Data Science Conference, Redmond**.
Details of the work can be found in my full paper http://dx.doi.org/10.1145/2778865.2778873

OCT '14
Presented a poster on *Clustering based approach to improve diversity and novelty of RS* at **Practice of Machine Learning Conference 2014, Redmond**.
Details of the work can be found in my full paper at http://dx.doi.org/10.1145/2732587.2732590

JAN - APRIL '13
Designed an algorithm, *S-SIFT*, for feature extraction from iris image. | Advisor: Prof. Banshidhar MAJHI, NIT Rourkela
Details of the work can be found in my BTech thesis at http://ethesis.nitrkl.ac.in/5323/1/109CS0171.pdf

JULY - DEC '12
Designed an algorithm for reduction of noise due to specular highlights during Iris Segmentation. | Advisor: Prof. Banshidhar MAJHI, NIT Rourkela
Details of the work can be found in my BTech thesis at http://ethesis.nitrkl.ac.in/5323/1/109CS0171.pdf

MAY - JUNE '11
A research project on *Model based regression test case selection technique* at **Indian Institute of Technology, Kharagpur**. | Advisor: Prof. Rajib MALL, IIT Kharagpur
This project was the part of my work at *Summer Research Fellowship Program* at IIT Kharagpur. The work mainly consisted of understanding and implementing the dependence algorithms of program model for regression test case selection.

Publications

1. **Pathak, Apurva**, Patra, Bidyut Kr. *A City Traffic Dashboard using on Social Network Data.* 2015 |URL: http://dx.doi.org/10.1145/2778865.2778873

   Conference on Data Sciences 2015., *IKDD, ACM*

2. **Pathak, Apurva**, Patra, Bidyut Kr. *A knowledge reuse framework for improving novelty and diversity in recommendations.* 2015. | URL: http://dx.doi.org/10.1145/2732587.2732590

   Conference on Data Sciences 2015, *IKDD, ACM*

3. **Pathak, Apurva**, et al. *Clustering based approach for balancing diversity and accuracy in collaborative filtering.* 2014. | URL: http://ds2014.ijs.si/lbp/DS2014_LBP_Pathak.pdf

   Late breaking paper. **Discovery Science 2014**

4. **Pathak, Apurva**. *Recognition using SIFT and its Variants on Improved Segmented Iris.* B.Tech. Thesis. 2013. | URL: http://ethesis.nitrkl.ac.in/5323/1/109CS0171.pdf

   B. Tech. thesis. **Ethesis, NIT Rourkela**

Work Experience

July '15 July '13	Software Engineer at Microsoft, India Worked as an architect and developer on various projects: Readiness Management System, Build and Packaging tool for Windows SE and Ordering application for Microsoft's partners.
April - July '12	Summer Intern at Microsoft, India Developed *Generic Service Host*, a tool that builds and hosts WCF services at runtime. Received pre-placement offer from the Microsoft IT as a result of very positive review.
Dec '11 - Jan '12	Winter Intern at Taragana Inc., Kolkata, India Developed a CRM mobile application for Symbian, Blackberry and Android that tracks user activities and uploads it into cloud.

Teaching Experience

July '14 - July '15	Delivered lectures on Machine Learning and Azure to Microsoft employees as a member of *Microsoft Data and Analytics Group*
July '11 - April '13	Delivered weekly lectures on C, C++ and Java to the students of NIT Rourkela as a member of *Createur club* of NIT Rourkela

Languages

English:	Fluent
Hindi:	Mothertongue

Technical Skills

Programming Languages:	C, C++, Java, C#, Python, SQL, PL/SQL, R
Engineering Tools:	Matlab, Octave, Weka
Platforms:	Windows, Linux
Other Tools:	Microsoft Office entire suite, LaTeX, Netbeans, Eclipse, Visual Studio

Awards and Achievements

1. First runners up in Conference on Data Sciences 2015 Data Challenge.

2. Acknowledged with *IT Excellence Award* in 2014 at Microsoft.

3. Fellowship for summer research project at IIT Kharagpur in 2011 by IIT Kharagpur.

4. Won **2ⁿᵈ** prize from the East zone in the 1st round of *Nexus 2011,* an International Robotics Competition organized by IIT Mumbai.

5. Won the **2ⁿᵈ** prize in *Overnite Coding Competition* in the Tech Fest 2010, NIT Rourkela

6. Won the **2ⁿᵈ** prize in *Encash Your Code* (programming contest) in 2010 at NIT Rourkela.

7. Secured All India Rank **32** in the first phase of *International Informatics Olympiad* in 2009.

EXTRA-CURRICULAR ACTIVITIES

1. Lead of *Education committee,* in Microsoft for the year 2014.

2. Vice President of *Createur club* of NIT Rourkela between 2011-2013.

3. Member of *Cyborg,* the Robotics club of NIT Rourkela.

4. Volunteered for community services as a member of National Social Services at NIT Rourkela.

5. Coordinated several cultural and technical events at NIT Rourkela.