

# Abhijeet Thakare

## PhD (Computer Science)

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### EXPERIENCE

#### Shri Ramdeobaba College of Engineering & Management , Nagpur, — Assistant Professor

June 2009 - PRESENT

### PROJECTS HANDLED

- Executed Successfully first research software consultancy in the Department (in 2011) Implementation and Enhancement / Tweaking of Synchronization Protocol 1588v2 over Multi Protocol Label Switching (MPLS) Network. This protocol enhancement will reduce data loss by 5%, reduce time lag by 15%, and reduce the Synch period by 50% for BSNL.
- Developed and successfully deployed consultancy project “ Touch Screen Kiosks” for one of the reputed Hotel clients in Panchgani, Maharashtra. This deployment has decreased the efforts of Hotel management Staff in managing the orders of customers by 100%.
- Developed and successfully deployed an E-Commerce website for one of the startups in Nagpur. This has increased their business in lockdown by 10% in one month.
- Successfully completed and delivered software development project “ Development of Software for Customer Engagement Database “ for the client “Sanstar Microsystems,Nagpur”. Research funds received from GIZ, Germany for development of this project.

### RESEARCH PROJECTS

1. Project Name:Automatic Extraction of Product Entities and Attributes from World Wide Web.( Status- Completed)
  - Development of a Novel Search Engine which automatically extracts entities and their respective attribute values from web pages and aggregates them into dynamic web-spreadsheets.
  - 100% time saving of the customer, as no need to scroll results and search within results for choosing the right product.
  - New features added by the manufacturer/retailers are also dynamically captured in the web spreadsheet.

Technology/Tools: Python, NLTK ,Java 1.7.0\_80., JSOUP 1.8.2 API, Stanford POS tagger v. 2.0, Java wordNet Interface API, Weka, Machine Learning, J48 Decision Tree Classifiers, Natural Language Processing,

### LANGUAGES

Java, Python, C, C++, JSP, Servlets

### SKILLS

Machine Learning, Natural Language Processing, Deep Learning RNN, LSTM, Keras, GRU, NLTK, Spacy, Text Generation,Statistical Analysis, Aggregated Search, Chat Bot, Data Structures, Object Oriented Concepts.

### DATABASES

Oracle , MYSQL, WordNet, Oracle Apex.

### PRODUCTS WORKED

Ematrix, Windchill

### AWARDS

NPTEL- Top Performing Mentor Award ( Programming in Java) in 2021

ITC Infotech Appreciation Award from ITC Infotech, Bangalore in 2014

Search Engines, Aggregated Search, Web Crawler.

## 2. Project Name: Flexible Software Architecture for Validation of Change Requirements . ( Status: Completed)

- **Development of Software Framework** which is flexible enough to adjust in the scenario when the software requirements in an organization continuously changes.
- **Cost of implementing change** requirements in software code is **reduced by 50%**.
- Saving Man-hours for writing code by 50%.

Technology/Tools: Java, JSP, Servlets, MySQL

## 3. Project Name: Question-Answering Chatboat ( Status: Ongoing)

- **Development of closed domain Question-Answering Chatboat on Entertainment Domain.**
- **Development of Open domain Question-Answering Chatboat for Time Series Data using LSTM/BERT.**

Technology/Tools: Python, Machine Learning, Natural Language Processing, NLTK, Spacy.

## ITC InfoTech, Bangalore — Associate IT Consultant

October 2008 - March 2009

Project Name: Monitoring Windchill Services, Client: PTC India Limited

- **Successfully handled the team of 4 persons for configuration and enhancement of “Application Manager” tool for reading different services Log Files and generating Statistical reports. This has increased availability of different services of Windchill” software by 15%.**

Technology/Tools: Java, JSP, Servlets, Oracle 10g, Apache Tomcat 6.0.

## Geometric Limited & 3dplmsoftware Solutions Ltd ( R & D Division of Dassault Systems), Pune— Software Engineer ,

August 2006 -October 2008

Project Name: Enovia Matrix One Product Central, Client: LG Electronics (South Korea)

- **Successfully delivered the project to the client. Worked on Complete Software Lifecycle of the Project, Product Development, Feature Enhancement, Bug Fixing , Unit Test Plan Creation and Debugging.**
- **Modules delivered by me and my team have shown 100% efficiency on the client site when tested on large data sets.**

Technology/Tools: Java, Servlets, JSP, MQL, TCL, ematrix, oracle 9i, oracle 10g, Tomcat 5.5

## Harrier Information Systems, Nagpur—System Engineer ,

October 2005 -July 2006

Project Name: Capital Market 5 minutes Delayed Data, Client: NSE (National Stock Exchange), CRISIL

- **Successfully developed and delivered a Java System which automatically downloads all the market information files on real time from NSE’s production server and stores on our local**

Infosys Partner in Success  
Bronze Award from Infosys in  
2016

## PATENTS

Indian Patent Published on  
“A Real World Object  
Interaction Through Eyes: A  
Novel Augmented Reality  
Concept”.

## CERTIFICATIONS

- **IBM Certified Database Associate-DB2 Universal Database V8.1 Family**
- **Brain bench Certified (RDBMS, JSP, DB2 Programming).**
- **Ematrix Application and Integration Certification (Certified by Geometric Limited, Pune).**
- **MCP (Microsoft Certified Professional).**
- **ANN and Deep Learning Certified by MeitY and IIITDMJ, Jabalpur**

system. Further the Java System ,automatically dumps the files(depending upon its structure and type) into respective tables in the database.

- **Development of this project results in 100% availability of market information files and its future data on our local system for future analysis of stocks.**

**Technology/Tools:** Java, Servlets, JSP, MultiThreading, JDBC, Tomcat 5.5, Oracle 9i

**Simsoft Technologies, Nagpur**—System Administrator ,  
July 2001 -May 2003

**Managing and Handling LAN & WAN, Troubleshooting the system and the network**

**Technology/Tools:** Java,JSP,Servlets, MYSQL, Oracle 11g.

## PUBLICATIONS

- **Authors :** Abhijeet Ramesh Thakare, Parag S. Deshpande, **Title:** Comparative Search of Entities, **Journal:** International Journal of Software Engineering and Knowledge Engineering. (SCI Journal) .  
<http://www.worldscientific.com/doi/abs/10.1142/S0218194017500498>
- **Authors :** Abhijeet Ramesh Thakare, Parag S. Deshpande, **Title:** Automatic Extraction of Attributes and Entities for Product Differentiation, **Journal:** International Journal of Computational Intelligence Systems (SCI Journal),<https://doi.org/10.2991/ijcis.11.1.23>
- **Authors :** Abhijeet Thakare,Nilesh Korde **Title:**Patient Health Monitoring System Using Blue Eye Technology and IoT, **Journal:** Bioscience Biotechnology Research Communications (WoS (ESCI Journal),  
<http://dx.doi.org/10.21786/bbrc/13.14/3>
- **Authors :** Nilesh Korde, Abhijeet Thakare **Title:**Recognition of Letters and Letter Font in Images Using Deep Learning, **Journal:** Bioscience Biotechnology Research Communications (WoS (ESCI Journal),  
<http://dx.doi.org/10.21786/bbrc/13.14/20>
- **Authors :** Abhijeet Thakare **Title:**Intelligent Automated Irrigation system Based on Soil Sensors and Weather Forecast Data. **Journal:** International Journal of Next Generation Computing (WoS ( ESCI Journal).  
<https://doi.org/10.47164/ijngc.v12i5.429>
- **Authors :** Preeti-Paranajpe Veditel, Abhijeet Ramesh Thakare, **Title:** Use of Sampling and Ant Colony optimization for Predicting support in Recommender System, **Conference:** Science and Information Conference , UK, London, (Scopus), <https://ieeexplore.ieee.org/document/6661794> ( **Scopus Indexed**)
- **Authors :** Nilesh Korde, Abhijeet Thakare, **Title:** Smart Shelf Management System using IOT-A Novel approach, **Conference:** IEEE's 3rd International Conference in Technology (I2CT), Pune (Scopus Indexed),  
<https://ieeexplore.ieee.org/abstract/document/8529415>
- **Authors :** Nilesh Korde, Abhijeet Thakare, **Title:**Exploration of Opinion from Twitter Data, **Journal:** International Journal of Recent Technology and Engineering (Scopus Indexed).  
<https://www.ijrte.org/wp-content/uploads/papers/v8i4/B3854078219.pdf>

## EDUCATION

**Visvesvaraya National Institute of Technology, Nagpur** —  
**PhD- Computer Science & Engineering**, January 2013 - December 2017

Defense Seminar done in October 2018.

CGPA: 9.43

**Research Area-** Natural Language Processing, Web Mining, Text Mining,

## Information Retrieval

**Walchand College of Engineering, Sangli**— *Master of Engineering- Computer Science & Engineering*, August 2003 - August 2005

Final Project Viva Done in October 2006  
Percentage: 66.80% ( First Division)

**P.C.E & A, Nagpur**— *Bachelor of Engineering- Computer Technology*, August 1996 - August 2001

Percentage: 60.00% ( First Division)

**A.G. Junior College, Dapoli**— *HSSC (Maharashtra State Board)*  
June 1995 - March 1996

Percentage: 71.83% ( First Division)

**A.G. Highschool, Dapoli**— *SSC (Maharashtra State Board)* June 1993 - March 1994

Percentage: 78.85% ( First Division, Distinction)