

# V VIDYA

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<http://www.nsitonline.in/people/vidya.v>

<http://www.github.com/vidyavnv>

## EDUCATION

**University of Delhi**, Netaji Subhas Institute of Technology  
B.E. (Information Technology), 70.11%

Delhi, India  
2014

**CBSE**, Bal Bhavan Public School  
12th standard, Percentage: 90.4%  
10th standard, Percentage: 94.2%

Delhi, India  
2009  
2007

## EXPERIENCE

**American Express India Pvt. Ltd.**

Gurgaon, India  
2014 - Present

*Software Engineer*

- Currently working on building an application using Python and Pig which assigns customers, a score, for efficient campaign management.

**InfoAssembly** - Creates and designs data that enables intended data discovery customized to user's needs

Delhi, India  
2013

*Software Engineer, Intern*

- Built a **web crawler** to parse RSS, PDF and XSL links on a set of user defined domains using Scrapy.
- **Developed an API** in Python for Socrata(cloud-software company) to scrape data for over 1500 domains.
- Built **Mongo Service Layer** to optimize the database interactions with the client using Python and MongoDB.
- Built a **Chrome Extension** with NodeJS and MongoDB to extract data from websites and store it in a database.

**Buyingiq.com** - Online Shopping Advisor

Delhi, India  
2013

*Software Engineer, Intern*

- Built **Recommendation Engine** through Item based Collaborative Filtering algorithm which takes into account binary ratings(viewed/not viewed by users), using PHP and PDO API, which had a run time of 13 seconds over a data of 11000 user entries.
- The engine predicts top 5 products to present under the feature "People who viewed this item also viewed".
- Used Model based Collaborative Filtering approach after analysing a number of recommendation systems.

**GENPACT**

Delhi, India  
2012

*Software Engineer, Summer Trainee*

- Worked in a team that developed **HelpDesk application** where cases are generated through different channels.
- Developed the code on the Front end using Java and JSP which serves more than **3k users** in the organization.

## ACADEMIC PROJECTS

**Predict Stock Prices using Tweets, Headlines and Google Analytics**

- Collected stock prices and headlines from Google Finance and Yahoo Finance using **Python's BeautifulSoup**.
- Employed a pilot approach of evaluating one company on all three parameters- stocks, tweets and headlines.
- Used Google Analytics to reduce error in prediction and expanding the project to involve various market sectors.

**Sentiment Analysis of Users' Reviews on IMDB Movies**

- Applied Naive Bayes classifier using NLTK in **Python** to classify reviews into positive or negative class with an accuracy of **74%**.
- Developed a feature mechanism in **Python** which selects top N words to classify the reviews. This increased the accuracy to **84%**.

**Automatic Detection of Anatomical Structures In Heavily Abnormal Retinal Images for the Detection of Glaucomatous Changes**

- Developed an algorithm to detect optic disc and macula using MATLAB which has a success rate of **90%**.
- Worked on applying machine learning techniques to identify the optic disc and optimize the algorithm.
- Performed a literature survey on optic disc and macula identification on retinal or fundus images.

**E-Commerce Website Design and Development**

- Designed an E-Commerce Website using PHP and MySQL supporting 200 products and a shopping cart.
- Built an Entity-Relationship, SRS and UML model for an E-Commerce Website and for a Social Networking Website.

**Other Projects**

- Predicted the area burnt by the forest fires using Linear Regression with 85% accuracy. All implementation was done using WEKA.
- Developed Payroll Management System in C++ as a part of high school project.

## SKILLS

**Programming:** C, C++, Python, NodeJs, Javascript, PHP, HTML, Matlab

**Tools:** WEKA, XCode, Git, LAMP, Eclipse

**Languages:** English, Hindi, German

**Operating Systems:** UNIX, WINDOWS

**Databases:** MySQL, MongoDB, Oracle 9i

## LEADERSHIP SKILLS

*President, The NSIT Quiz Club*

- Promoted to President in Spring 2013; led a team of **30** people to ensure effective running of NSIT's largest ever quizzing festival, with participation increasing to **three times** previous years'.
- Raised **75%** of sponsorship within 2 weeks.
- Handled the accounts for the NSIT Quiz Fest 2013 and NSIT Quiz Fest 2012 as the Treasurer.

*Co-Founder, Webmaster, ACM NSIT Student Chapter*

- **Co-founded the society** in order to encourage undergraduate research among students in various areas of computer science through research talks and competitions.
- Spearheaded the design team to complete the extensively detailed website(<http://nsit.acm.org/>) within a month(2 months before target), using WordPress, PHP, HTML and CSS. It gained 11000 hits within a span of 5 months.

*Lead Developer, NSITOnline - Official NSIT Portal*

- Developed official NSIT forum <http://forum.nsitonline.in/> using phpBB, Joomla and Facebook API for resolving student queries regarding admission and placements.
- Developed the website <http://www.nsitonline.in/> which serves as a portal for the Training and Placement team and is a consolidated source for information and resources for the students.

*Team Captain, Basketball*

- Excellent time management skills. Balanced a 40+ hour practice, training, competition, and travel schedule, in addition to academics.
- Effectively managed communications between 15 team members, served as a liaison between the team and coaching staff and effectively resolved intra-team conflicts.

## ACHIEVEMENTS

- Graduated in Introduction to Artificial Intelligence conducted by Stanford University.
- In top 0.5% in All India Engineering Entrance Examination (AIEEE) out of 11 lakh students nationally.
- In top 2% in Indian Institute of Technology Joint Entrance Exam (IIT-JEE) out of 4 lakh students nationally.
- Top 3 scorers in 10th and 12th board CBSE Examination in School.

## RELEVANT COURSEWORK

Data Structures, Algorithms, Theory of Computation, Database Systems, Operating Systems, Software Engineering, Computer Networks, Artificial Intelligence, Machine Learning.