Rishabh Bhardwaj

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EDUCATIONAL QUALIFICATIONS

Year	Degree	Institution	Performance
2014-2018	B.Tech	Indian Institute Of Technology Kanpur	8.34/10.0 GPA
2014	AISSCE, XII (CBSE)	Delhi Public School Ghaziabad, Ghaziabad	93.8%
2012	AISSCE, X(CBSE)	K.V. Kamla Nehru Nagar Ghaziabad	10/10 CGPA

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ACADEMIC ACHIEVEMENTS

- Secured an All India Rank of **172** in JEE Advanced 2014 given by about 150,000 shortlisted candidates (99.89 percentile).

- Secured an All India Rank of **3657** in JEE Main 2014 among 1,500,000 students(99.76 percentile).

- Secured All India Rank **422** in Kishore Vaigyanik Protsahan Yojana (KVPY) 2014.

- Secured State wise top 1% in NSEC 2014 (Chemisrty Olympiad).

- Secured State wise top 10% in NSEP 2014 (Physics Olympiad).

- Attained **98.562 percentile** score in Quantitative reasoning in Problem Solving Assessment(PSA) 2013 conducted by CBSE

- Received Academic Excellence Award for outstanding academic performance in school (for years 2011-12 and 2012-13)

JOB EXPERIENCE

Amazon Development Center, Bangalore, India - SDE I in Outbound Marketing Automation Team

Worked as a part of six member team owning a channel agnostic advertisement platform used to run automated personalised notification programs as well as allowing other teams to easily build automated notifications specific to their businesses.

Common Automated Framework for Engagement (CAFE System)   Aug'18 - Feb'20

- CAFE is batch system used for notifications which are known in advance and should be send a couple of days later. Cafe powers more than 80 automated programs that send nearly 6.4 billion notifications annually.

- Involved adding new features like development of filtering, aggregating etc. components and maintaining the system.

- Designed the logic to migrate data jobs (consumed by components) running on Redshift SQL to Hive on EMR Clusters.

NESCAFE System   Aug'18 - Feb'20

- Nescafe is a streaming system used for near-real time scenarios where the customer should be notified quickly. It is the platform for processing real-time notification programs that are event-triggered.

- Developed an event handler service using AWS Lambda which listens to standard customer events like order delivered and initiate Nescafe workflows. Helped internal teams onboard the handler or build similar handler for their usecases.

Mawai Infotect Pvt. Ltd., Noida, UP, India - Research Engineer

Integrating SAP iRPA and SAP Conversational AI with SAP ERP   Feb'20 - Present

Project aimed to integrate SAP's iRPA and Conversational AI technology with SAP's legacy ERP software to develop tool which will assist the business leaders to easily extract valuable data with the help of a digital voice assistant and make decisions quickly.

Smart Analytics Dashboard for SAP S/4HANA   Jun'20 - Present

Project aimed at building smart analytics dashboards depicting sales/ finance etc. data, stored in SAP S/4 Hana servers, along with predictive future projections and what-if analysis features.

INTERNSHIP EXPERIENCE

Amazon Development Center., Bangalore, India - Software Development Intern

Evaluation of Reviews Appropriateness for Outbound Marketing   May'17 - Jul'17

Project aimed at building a service to rank consumer reviews of a product in order of their relevance for a customer.

- Proposed and implemented a method based on Information Retrieval Technique which uses tf-idf score and readability score of review texts. Created python package using nltk to generate ranked list of reviews. Used AWS's Dynamodb and S3 to get and store data. Created Java Service which first fetches reviews of a product and then uses the python package to rank the reviews.

PROJECTS

Automatic Detection of Slide transition in lecture videos   May'16 - Jun'16

- Project under **Porf.TV Prabhakar** aimed at developing a system to automatically detect transition points of lecture slides in a lecture video.

- Proposed method involves using SIFT algorithm for comparing video frames based upon a threshold. Used face detection technique to distinguish between the frames containing the slide and the frame containing the instructor.

- Developed web interface for the project where one can enter link for video and pdf link and get the results through email or can download the file.

Visual Question Answering Jan'18 Mar'18

- Course Project in NLP under **Prof. Harish Karnick** aimed at implementing and comparing the performance Neural Networks models on the famous VQA challenge.
- Implemented and trained various models by varying hyperparameters and word/image embeddings and compare the results with the state of the art models.

YAHS: Yet Another HTTP-proxy Server Oct'17 Nov'17

- Course Project under **Prof. Sandeep Shukla** aimed at creating an HTTP proxy server that can serve HTTP GET, POST and HEAD requests and can evaluate all the incoming requests and filter out the illegal ones along with the feature to add rules for filtering.

Compiler for C Language Jan'17 Apr'17

- Course Project in Compiler Design under **Prof. Amey Karkare** aimed to develop and design a compiler for C Language using Python as Intermediate Language. Implemented logic for giving syntax errors, dynamic memory allocation, a lexical scoping system, a type system and type checking. Final code was generated in MIPS which supports register allocation, optimum expression calculator and implementation of basic C functionalities.

Sentiment Analysis of Movie Reviews Feb'18 - Feb'18

- Course Project assignment under **Prof. Harish Karnick** aimed at implementing and comparing various word embedding algorithms in combination with various classification algorithms to find and validate the best match pair for problem statement.

OTHER PROJECTS

Efficient Crew Scheduling by using set covering and column generation approach Jul'17 Nov'17
A literature review of Cops and Robber Game on Graphs July15 - Nov15
Antaragni'15 Website (July'15 - Nov'15) and ACP IIT Kanpur Website (Aug'14 - Jan'15)

TECHNICAL SKILLS

Programming Languages: C++, Java, Python
Web Development: HTML, CSS, Javascript, PHP
Software and Tools: AWS S3, DynamoDB, SWF, IAM, RedShidft, Lambda, CloudFormation, HiveQL LaTeX, Git, SQL, SAP ECC, SAP Analytics Cloud (SAC), Hana Studio
OS: Windows, Linux (Ubuntu)

RELEVANT COURSES

- **Computer Science**: Fundamentals of Computing, Data Structure and Algorithm, Logic for Computer Science, Operating System, Algorithms II, Theory of Computation, Compiler Design, Introduction to Natural Language Processing, Computer Security.
- **Others**: Discrete Math, Linear Algebra, Abstract Algebra, Probability and Statistics, Fundamentals of Calculus

POSITIONS OF RESPONSIBLITY

Web Master, SIGML, IITK Dec'15 - present

- SIGML - Special Interest Group on Machine Learning of Computer Science , is a group of people interested in areas of Machine Learning, Data Mining and related fields
- Work with the Coordinators to maintain the website of SIGML
- Responsible for keeping the information on the website updated and adding features to website to facilitate the functioning of group

Web Executive, Antaragni 2015, IITK July'15 - Nov'15

- Been a part of website developing team of Antaragni (Cultural festival of IIT Kanpur)
- Acquired teamwork and leadership skills

Junior Web Executive, Alumni Contact Program, IITK Aug'14 - Jan'15

- Contributed towards the betterment of IITK by redeveloping the ACP website