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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ACEDEMIC 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 (Chemisrty Olympiad).

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 - Present
- 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 - Present
- 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.

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
- Developed 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.

YAHS: Yet Another HTTP-proxy Server   Oct'17 Nov'17
- Created 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. Developed and designed 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.

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.

OTHER PROJECTS

Sentiment Analysis of Movie Reviews   Feb'18 - Feb'18
Operating Systems: Extended the standard system call library of NachOS   Jul'16 Nov'16
Efficient Crew Scheduling by using set covering and column generation approach   Jul'17 Nov'17
Antaragni'15 Website (July'15 - Nov'15) and ACP IIT Kanpur Website (Aug'14 - Jan'15)

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python
Web Development: HTML, CSS, Javascript, PHP
Software and Tools: AWS S3, DynamoDB, SWF, IAM, RedShidft, Lambda, CloudFormation, HiveQL LATEX, Git, SQL
OS: Windows, Linux (Ubuntu)