

Gautam Choudhary

Curriculum Vitae

Research Associate
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“Explore. Dream. Discover.” – Mark Twain

Education

- 2015–2019 **B.Tech. Computer Science & Engineering**, *Indian Institute of Technology, Roorkee.*
CGPA: 9.223/10.0 (Top 3 in Department)
- 2014–2015 **Senior Secondary, Class 12**, *Lav Kush School, Sri Ganganagar.*
Percentage: 95.6/100% (District Topper)
- 2012–2013 **Secondary, Class 10**, *Nosegay Public School, Sri Ganganagar.*
CGPA: 10.0/10.0

Research Interests

I work at the intersection of data mining and user modelling in Machine Learning. I'm also interested in learning about graphs in social networks.

Publications

- 2020 **Transport-free module binding for sample preparation using microfluidic fully programmable valve arrays**, *In 2020 Design, Automation & Test in Europe Conference & Exhibition, (DATE).*
[Gautam Choudhary](#), Sandeep Pal, Debraj Kundu, Sukanta Bhattacharjee, Shigeru Yamashita, Bing Li, Ulf Schlichtmann, Sudip Roy
- 2019 **Understanding blogs through the lens of readers' comments**, *In Computación y Sistemas, (CICLing).*
Abhilasha Sancheti, Natwar Modani, [Gautam Choudhary](#), Chintha Priyadarshini, Sai Sandeep Mparthi Mparthi

Patents

- Jun, 2021 **Artificial Intelligence Approaches For Predicting Conversion Activity Probability Scores And Key Personas For Target Entities**, *Filed to USPTO.*
Liana Vagharshakian, Atanu R. Sinha, Camille Girabawe, [Gautam Choudhary](#), Omar Rahman, Scott Trafton, Vivek Sinha
- Feb, 2021 **Determining Digital Personas Utilizing Data-Driven Analytics**, *Filed to USPTO.*
[Gautam Choudhary](#), Iftikhar Ahamath Burhanuddin
- Feb, 2021 **Machine-Learning Systems For Simulating Collaborative Behavior By Interacting Users Within A Group**, *Filed to USPTO.*
Atanu Sinha, [Gautam Choudhary](#), Mansi Agarwal, Shivansh Bindal, Abhishek Pande, Camille Girabawe
- July, 2020 **Expressive Text-To-Speech Utilizing Contextual Word-Level Style Tokens**, *Filed to USPTO.*
Sumit Shekhar, Abhilasha Sancheti, [Gautam Choudhary](#), Santhosh Kumar, Shubhanshu Agarwal, Rahul Saxena

Experience

Academia

- Jun'19 – **Research Associate**, Adobe Research, (Full Time).
present I'm focused towards applying machine learning to real world applications working closely with data mining.
- Aug'18 – **Undergraduate Research Thesis**, Indian Institute of Technology, Roorkee.
- May'19 We propose a design automation strategy to achieve the transport-free module binding of a mixing tree on a PMD-based LoC for sample preparation along with a heuristic to modify the mixing tree to reduce the time of completion for sample preparation by x times.
- May'18 – **Research Intern**, Adobe Research, India.
- Jul'18 We worked in the broad domain of AI Assistant for Documents. The problem statement focused upon generating actionable insights for blog authors for being able to write better blogs.

Industry

- Nov'18 – **Javascript Developer Intern**, JS Tigers.
- Jan'19 I used to add new features in the ANGULAR App that was based on CRM with a backend of Node.JS using MongoDB. Other objective was to find bugs and fix in the existing application.
- Dec'17 – **Backend Web Developer Intern**, Saarthi AI.
- Jan'18 We got the experience of building a product end-to-end by using the principle 'build and learn'. We developed a IONIC app having a chatbot built on DialogFlow with backend on DJANGO and server hosted using AWS.
- Dec'15 – **Educational Content Developer Intern**, Quiziential.
- Jan'16 I used to publish intuitive questions on Quiziential.com everyday. It is basically a platform where students come and not only solve merely questions but can also put forward there queries as well.

Academic Achievements & Recognitions

- 2019 Best B.Tech. Project Award in Computer Science Department
- 2015 Ranked in Top 3 students in the Computer Science Department
- 2015–2019 Merit-cum-Means (MCM) Scholarship for 4 consecutive years
- 2015 IIT-JEE Advance rank 1416 (AIR) & 199 (OBC) in year 2015
- 2014 Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship
- 2014 17th Position in **SOF National Science Olympiad** (NSO)

Computer Skills

- Languages Python, \LaTeX , C++, JAVA, SQL
- Frameworks PyTorch, Deep Graph Library (DGL), Keras, TensorFlow, Django
- Tools Git, MATLAB, Visual Studio, Android Studio
- Web HTML 5, Javascript, Angular (Frontend), NodeJS (Backend)
- OS LINUX (Ubuntu), MacOS, Windows
- Database MySQL, MongoDB

Volunteering

- 2021 **Adobe Create Change Day**, Adobe, Help shelter home children explore the world virtually (Took a bunch of kids on a virtual tour to Statue of Unity, Gujarat).
- 2021 **Adobe Create Change Day**, Adobe, Mapathon - Support the local governance of Zambia.
- 2020 **Volunteer with Karunashraya**, Adobe, Raise fund for cancer patients (Helping the NGO with they day-to-day activities).
- 2019 **Adobe Create Change Day**, Adobe, Volunteering for 'concept painting' at a nearby government school.

- 2018–2019 **Volunteer, Student Mentorship Program**, IIT Roorkee, Have been mentoring a group of 7 freshers.
- 2015–2016 **Volunteer, National Service Scheme (NSS)**, IIT Roorkee, Have been an active member in 'Prerna Cell'.