

# Amandeep Rathee

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## EDUCATION

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- **Dayananda Sagar College of Engineering (Affiliated to VTU)** Bangalore, India  
*Bachelor of Engineering in Computer Science; CGPA: 70.65% (First Class with Distinction) 2013 – 2017*

**Coursework:** Engineering Mathematics 1-4 (Linear Algebra, Multivariable Calculus, Optimization, Numerical Methods, Probability and Sampling Theory), Object Oriented Programming with C++, Discrete Mathematical Structures, Data Structures with C, Design and Analysis of Algorithms, Graph Theory and Combinatorics

## RESEARCH INTERESTS AND PROGRAMMING SKILLS

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- **Research Interests:** Computer Vision, NLP, Optimization and Heuristics, Probabilistic Graphical Models
- **Technical Skills:** Python, R, SQL, Java, C, C++, Javascript, HTML & CSS, L<sup>A</sup>T<sub>E</sub>X, Git

## WORK EXPERIENCE

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- **UpGrad** Bangalore, India  
*Content Strategist - Data Science July 2017 – Present*
  - **Course Development:** Developed the 'Random Forest', 'Healthcare Analytics', 'Lexical Processing', 'Recurrent Neural Networks' and 'Probabilistic Graphical Models' courses for the [Data Science](#) and the [Machine Learning & AI](#) post-graduate diploma programs (ranked [#4](#) and [#1](#), respectively) with an average course rating of 4.6/5.
  - **Career Research:** Conducted surveys with employers and students to facilitate the hiring of the students of the diploma programs.
- **Upwork**  
*Freelance Data Analyst and Machine Learning Consultant October 2016 – June 2017*
  - Undertook projects for clients from various domains. Some of the deployed projects include: *Sign Language Detection for the Differently Abled*, *Predicting Server Downtime* and *Identifying Fraud in Credit Card Transactions*.  
| Average profile rating: 4.97/5

## PROJECTS

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- **Kaggle Expert:** Illustrated the use of practical data science through Kaggle kernels which fetched me a gold, a silver and seven bronze medals along with a worldwide rank [#33](#) among 80,000+ data science practitioners.
- **Ranking Districts:** Derived a metric and assigned ranks to the districts of Odisha, India based on socio-economic factors after gathering data from public sector websites.
- **Sentiment Analysis:** Analyzed public opinion using public tweets on Demonetization, India - 2016.

## CONFERENCES AND PUBLICATIONS

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- *Targeting Indian Census 2021: Systematic Approaches for Reliable and Efficient Data Collection* ([Paper link](#))
- *Helmet Detection on Two-wheeler Riders Using Machine Learning* ([Paper link](#))

## HONORS AND EXTRACURRICULAR ACTIVITIES

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- **Best Content Strategist - Upgrad:** Received the accolade in January 2019 for my contributions to Upgrad.
- **Teaching Experience:** Instructor of *Practical Machine Learning* at the Computer Science Department, Dayananda Sagar Institutions. Also taught maths and science to middle school students of Takshila Vidyapeeth, Haryana, India.
- **Statistics Without Borders:** Member of SWB, an organization that provides pro bono statistical consulting.
- **Winner - Numerano, 2015:** Winner of intra-college mathematics quiz and member of college math club.