

Shivam Sharma

Data Scientist



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Education

M.Tech Computational Biology,
IIITD | 2019 | CGPA: 8.9/10

B.Tech Information Technology,
CIC, DU | 2017 | 77.79 %

Skills

Languages: Python, R, C/C++, Java,
Matlab, SQL

Other: Git and JIRA

Datbase: PostgreSQL, MySQL, AWS

Expertise: Machine Learning,
Statistical computation, Health care
data analysis, Parallel Computation in
C.

Extra-Curricular

2016|Para legal Volunteer Training
(DSLISA)

2011|Bronze in International
Informatics Olympiad

2006|Gold in National Cyber
Olympiad

About me

- Result Oriented Professional offering 1 year of industrial exposure in Machine Learning, Deep learning, Data Analysis and Computer vision
- Knowledge in Machine Learning, Statistical computation, Health care data analysis in Python and R

Work Experience and Internships

Jan'20	Data Scientist Worked on Computer vision problem: <ul style="list-style-type: none">• Performed surgical objects recognition using Mask R-CNN• Worked on Yolo v3, faster R-CNN, Resnet101• Deployed the model as a flask application• Optimised the performance upto 80% for real time prediction	KnowDis Data Science LLP, Delhi
March'19	Data Scientist Deliverable: <ul style="list-style-type: none">• Data analysis and ML model implementation in R and Python• Data engineering, providing assistance in product deployment and building new feature in the product.• Antibiotic Panel Prediction using recommendation system• Outlier Detection for Bacteria Prevalence• Trend-line analysis for detection of increase in antibiotic bug resistance• APIs and ETL implementation in Python with PostgreSQL• Provided support in onsite deployment of the product Zevac (inspired from my M.Tech thesis)	Circle Of Life, Delhi
July-2018	Industrial Thesis and Data Scientist Intern Towards personalized antibiotic prescription in the management of urinary tract infection: <ul style="list-style-type: none">• Analyzed large culture and patient demographic data in predicting susceptibility of antibiotics• Implemented multinomial logit model for Etiological feature correlation with bacterial occurrence.• Antibiotic similarity detection using Cohen's kappa	Circle Of Life, Delhi
2016-2017	Project Fellow Implemented efficient public-key cryptosystem based on an elliptic curve from scratch, relying only on large-number arithmetic libraries like GMP NTL & MPI in C/C++.	Indian Statistical Institute, Delhi

Research and Projects

2018	Hate Speech and emotion detection with anti-bias conversion using text based style transfer <ul style="list-style-type: none">• Emotions prediction using SVM• Used style back translation technique to generate non-offensive sentences
2017	Prediction of Plant Encoded Viral RNA suppressor proteins Implemented SVM and Adaboost to predict Plant encoded viral RNA as suppressor protein using the Plant protein dataset.

Publications

2019	A Game Theoretic Model of Deceptive Ambush as Countermeasure for Habitat Selection in Cross-Border Infiltration (Link) Springer
2015	Extension of Josephus problem with varying Elimination Steps (Link) DU Journal