

Somesh Chaturvedi

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AREAS OF INTEREST

ARTIFICIAL INTELLIGENCE
SOFTWARE DEVELOPMENT
COMPUTATIONAL BIOLOGY

EDUCATION

UNDER-GRADUATION
B.TECH BIOTECHNOLOGY
IIT Roorkee, 2014 - 2018

HIGH SCHOOL
2014
Secured 97 percentile in JEE-Advanced

COURSEWORK

UNDER-GRADUATION
Modeling of Biological Data
Molecular Genetics
Psychological Studies
Interpersonal Dynamics
Programming
Linear Algebra and Calculus
Modern Physics

SKILLS

Software Development
Machine Learning

COMPUTER LANGUAGES

Python • C • C++ • R
JavaScript • Java • C#
php • HTML5 & CSS3

SOFTWARE PACKAGES

Android Studio • Visual Studio
Git • Heroku • AWS • Linux
MySQL • MongoDB

LINKS

Github:// [someshchaturvedi](#)
LinkedIn:// [somesh-chaturvedi](#)
Medium:// [somesh.08.96](#)

REFERENCES

AMIT GARG
CEO, H-ILABS INC
amit.garg@hilabs.com

DR. DEEPAK SHARMA
ASSISTANT PROFESSOR, IIT ROORKEE
deepak.fbt@iitr.ac.in

PROJECTS

MOTIF PREDICTION PROGRAM IIT ROORKEE

Dec 2017 - Ongoing | Computational Biology and Translational Bioinformatics Lab

- Developing an efficient algorithm using machine learning models to predict regulatory motifs in DNA sequences
- Exploring various machine learning and standard algorithms for the same

DHADKAN IIT ROORKEE

Aug 2017 - Dec 2017 | Computational Biology and Translational Bioinformatics Lab

- A mobile application for heart patients to communicate with doctors efficiently with high security
- Analysing Machine Learning and Image Processing algorithms to automate the diagnosis of ECG image analysis and prediction of heart failures beforehand
- Developed on Django with integration of JWT authentication and FCM services

CUSTOMIZABLE-DJANGO-PROFILER GITHUB

Jul 2017

- Published a Python library which received substantial number of downloads
- Django middleware which is used for profiling requests for performance optimizations of remote servers

INTERNSHIPS

SUPERTEXT TECHNOLOGIES SOFTWARE ENGINEERING INTERN

May 2017 - Jul 2017 | Bangalore, India

- Conceptualised and designed back-end architecture of the machine learning engine for intents and entities classification
- Implemented machine learning algorithms and semantic comparison methods
- Deployed on Amazon EC2 instance and used Jenkins for automation
- Published a Django middleware for customizable django profiling

INGENIUM SOFTWARE DEVELOPMENT INTERN

May 2017 - Jul 2017 | Remote

- Designed the back-end and application architecture of the platform providing tailor-made tests
- Used Django, Django REST framework and AWS RDS as database
- Implemented Celery Redis for queuing tasks and deployed on AWS eb instance

H-ILABS INC SOFTWARE ENGINEERING INTERN

May 2016 - July 2016 | Mumbai, India

- Worked on Data Visualization using Highcharts and DataTables
- Grasped the fundamentals of Big Data and Natural Language Processing

POSITIONS OF RESPONSIBILITY

MANAGER WEB COGNIZANCE, ANNUAL TECHNICAL FESTIVAL

2016 - 2017 | IIT Roorkee

- Conceptualised and formulated entire timeline of the website creation.
- Spearheaded a 3-tier team of 20 developers and designers
- Created a software for on-boarding of 2610 participants across India
- Developed the website, as a member-web, Central Organizing Team, in 2015-16 edition