Gangavarapu, Tushaar

EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA
UNDERGRADUATE STUDY IN INFORMATION TECHNOLOGY

Specialization: Artificial Intelligence
2015 – 2019 | India
Cumulative GPA: 9.7/10

NARAYANA PU COLLEGE
MAJOR IN COMPUTER SCIENCE AND ENGINEERING

2013 – 2015 | India
Percentage: 93.2%

NSVK HIGH SCHOOL

2012 – 2013 | India
Percentage: 97.9%

RESEARCH INTERESTS

COGNITIVE PSYCHOLOGY
Game-based Assessment
Learning Sciences
Cognitive and Affective Computing
Social Network Analysis
Behavioral Pattern Mining
Computational Social Systems
Electoral Forecasting

HEALTHCARE INFORMATICS
Clinical Decision Support Systems
Clinical Text Modeling
Risk Assessment
Population Health Analytics
Biomedical Feature Modeling

BIO-INSPIRED COMPUTING
Hybrid Bio-inspired Algorithms

COURSEWORK

Data Analytics
Deep Learning
Web and Social Computing
Soft Computing
Time Series Analysis
Parallel Computing
(Research Asst. and Teaching Asst.)
Computer Communications and Networking

SKILLS

PROGRAMMING
Python • Java • C • C++ • Bash • HTML, CSS, and PHP • MySQL

FRAMEWORKS
Weka • Tensorflow • AWS • XCode • LaTeX • OpenGL • OpenCV • IntelliJ • Eclipse • NetBeans • Git

WORK EXPERIENCE

AMAZON.COM, INC. | MACHINE LEARNING RESEARCH ENGINEER
December 2019 – Present | India
Enhancing readers' and publishers' experience through automated quality assistance.

AMAZON.COM, INC. | SOFTWARE DEVELOPMENT ENGINEER
June 2019 – December 2019 | India
Deals ranking for promotion valuation at Worldwide Deals team.

AMAZON.COM, INC. | SOFTWARE ENGINEERING INTERN
May 2018 – Jul 2018 | India
Accessibility and virtual assistant for Kindle Create team (Publisher Tools to Reader).

PATTERN RECOGNITION AND MACHINE INTELLIGENCE | RESEARCH INTERN
May 2017 – Jul 2017 | India
Gauging the amount of water required for sugarcane cultivation using ML models.

RESEARCH EXPERIENCE

HUMAN CENTERED RESEARCH GROUP | RESEARCHER
Jul 2017 – Present | India
UToSMoV is a framework that unifies various theories of modeling social media.
Publication submitted to ACM Transactions on Social Computing.

HEALTHCARE ANALYTICS AND LANGUAGE ENGINEERING | RESEARCHER
Jul 2018 – Present | India
TAGS and FarSight, automated systems for risk stratification as ICD-9 prediction.
Published at NLDB 2019, CoDS-COMAD 2020, CoNLL 2019, and Knowledge-Based Systems, Elsevier; submitted to Emerging Topics in Computing, IEEE Transactions.

BIOMEDICAL FEATURE ENGINEERING | RESEARCHER
Aug 2018 – Present | India
A novel hybrid greedy ensemble, optimized using GA to reduce the dimensionality of biomedical datasets. Published at Applied Soft Computing, Elsevier.

HUMAN CENTERED RESEARCH GROUP | RESEARCHER
Jul 2017 – Present | India
Development and assessment of GAMVR, a cost-effective VR game to teach maths to children. Publication submitted to Learning Technologies, IEEE Transactions.

SCIENTIFIC ACTIVITIES

Year	Org	Activity
2020	Amazon	Founder, machine learning reading group
2020	NITK	Guest lecture on feature selection for biomedical data
2020	NITK	Guest lecture on cognitive and affective assessments
2020	FICTA	Special Session on Healthcare Analytics (HeAL)
2019	NITK	Guest lecture on social media based predictive analytics (IT752)
2019	NITK	Guest lecture on game-based learning and assessment (IT352)
2019	NITK	Expert talk on social media applications, PAA workshop
2017	NITK	Computer Communications and Networking (IT251), TA
2016	NITK	ML mentor, winter mentorship, Web Enthusiasts' Club

SOCIETIES AND GROUPS

Year	Scope	Group
2019	International	SIG on Natural Language Learning (ACL SIGNLL), Member
2019	International	Association for Computational Linguistics (ACL), Member
2016	International	Intel Artificial Intelligence, Student Ambassador
2016	International	CodeNation, Student Ambassador
2016	National	Institution of Engineers, Executive Member
2016	NITK	Web Enthisiasts' Club, Executive Member
2015	International	IEEE, Student Member