

Kaustubh Kulkarni

Education

Qualification	Specialization	Institute/University/Board	Year	% /CPI	Rank
M.Tech.	Computer Engineering	Veermata Jijabai Technological Institute, Mumbai-19.	2017	9.55 CPI	2
B.E.	Computer Engineering	K J Somaiya College of Engineering, Mumbai-77.	2015	82.07%	1
HSC (Class XII)	Bifocal Computer Science	Maharashtra State Board of Secondary & Higher Secondary Education, Pune.	2011	89.5%	-
SSC (Class X)	-	Maharashtra State Board of Secondary & Higher Secondary Education, Pune.	2009	93.84%	-

Subjects taught

- Python Programming
- Object Oriented Programming Methodology (Java)
- Data Science and Analytics
- Problem Solving using C Programming
- Discrete Structures and Graph Theory
- Database Management Systems
- Mathematical and statistical foundations for machine learning and cryptography
- Big Data Analytics
- Digital Forensics
- Project Management
- Management Information System
- Data Warehousing
- Data Mining
- Unix Programming Lab
- Artificial Intelligence and Robotics
- System Security
- Advanced Computer Architecture
- Introduction to Computer Technology (for introducing newly admitted FY Diploma students to commonly used tools like Microsoft Office and Google Classroom)

Certifications

Name of certification	Date earned	Grade
Foundations: Data, Data, Everywhere	August 19, 2021	100%
Understanding Deep Fakes with Keras	November 29, 2020	100%
Mathematics for Machine Learning: PCA	June 20, 2020	99%
Mathematics for Machine Learning: Multivariate Calculus	June 11, 2020	100%
Mathematics for Machine Learning: Linear Algebra	June 3, 2020	100%
AI For Everyone	May 26, 2020	100%
Data Science Math Skills	May 25, 2020	98%
Introduction to Data Science in Python	May 9, 2020	97%
Capstone: Retrieving, Processing, and Visualizing Data with Python	April 8, 2020	96%
Sequence Models	February 3, 2019	99%
Convolutional Neural Networks	June 15, 2018	97.8%
Structuring Machine Learning Projects	April 7, 2018	99.2%
Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization	March 27, 2018	100%
Neural Networks and Deep Learning	December 9, 2017	100%
Statistical Inference	August 24, 2017	98.3%
Neural Networks for Machine Learning	April 28, 2017	90.8%
Using Databases with Python	March 15, 2017	99.0%
Machine Learning	March 1, 2017	96.5%
The Data Scientist's Toolbox	December 22, 2016	96%
Using Python to Access Web Data	December 20, 2016	97.7%
Python Data Structures	December 11, 2016	100%
Programming for Everybody (Getting Started with Python)	November 25, 2016	100%
Oracle Certified Associate, Java SE 7 Programmer	September 27, 2015	83%

STTP/FDP/Webinars attended

- ❖ NPTEL-AICTE FDP on “**Python for Data Science**”, July - Sep 2023. (top 1% - topper in the certification exam)
- ❖ NPTEL-AICTE FDP on “**Fuzzy Logic and Neural Networks**”, Feb - Apr 2023.
- ❖ Attended the webinar on “**Anti-virus hardware: Exploring the new domain in system security**” organized by IEEE Circuits and Systems Society, Bangalore Chapter, on 26th June 2021.
- ❖ Attended a one week Short Term Training Program on “**Python Basics, Machine Learning & Blockchain**” organized by the Computer Engineering Department of K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai, from 8th June 2020 to 13th June 2020.
- ❖ Attended a one week FDP (Refresher Program) on “**Deep Learning and Its Applications**” , sponsored by AICTE-ISTE organized by the Computer Engineering Department of K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai, from 13th Dec – 18th Dec 2021

Achievements

1. All India Rank 1003, Graduate Aptitude Test in Engineering (GATE) 2015.
2. 57th Foundation Day Award, 2015, awarded by Somaiya Vidyavihar Trust, Mumbai.
3. Sir Ratan Tata Scholarship, 2014, awarded by Sir Ratan Tata Trust, Mumbai.
4. National Talent Search Examination (NTSE) Scholarship, awarded by the National Council of Educational Research and Training (NCERT), New Delhi.
5. Rank 26 in State Level Merit List, Maharashtra Talent Search Examination, 2007, conducted by the Modern Education Society's Centre for Talent Search & Excellence, Pune.
6. Rank 30 in State Level Merit List, Maharashtra Talent Search Examination, 2008, conducted by the Modern Education Society's Centre for Talent Search & Excellence, Pune.
7. Gold Medal, Dr. Homi Bhabha Balvaidnyanik (Young Scientist) Science Talent Search Examination, 2004-05, conducted by the Greater Bombay Science Teachers Association, Mumbai.
8. Silver Medal, Dr. Homi Bhabha Balvaidnyanik (Young Scientist) Science Talent Search Examination, 2007-08, conducted by the Greater Bombay Science Teachers Association, Mumbai.
9. Student of the Year Award, 2007, awarded by the Times Newspaper in Education (Times NIE), The Times of India, Mumbai.

10. AIR 27, All India Open Mathematics Scholarship Examination 2005, conducted by the Institute for Promotion of Mathematics, Pune.
11. AIR 99, All India Open Mathematics Scholarship Examination 2006, conducted by the Institute for Promotion of Mathematics, Pune.
12. AIR 74, All India Open Mathematics Scholarship Examination 2008, conducted by the Institute for Promotion of Mathematics, Pune.
13. Rank 22 in Thane district merit list, High School Scholarship Examination, 2006, conducted by the Maharashtra State Examination Council, Pune.
14. Silver Medal, National Environmental Talent Search Examination (NETSE), 2004, conducted by the Mallinath International Foundation for Earth and Environment (MIFEE), Panaji, Goa.
15. Meritorious Performance (Vishesh Pravinya) Certificate, Ganit Pradnya Exam, 2003-04, conducted by the Maharashtra Ganit Adhyapak Mahamandal, Pune.
16. Distinction, Ganit Pravinya Exam, 2003-04, conducted by the Thane Zilla Ganit Adhyapak Mandal, Thane.
17. Rank 4 in state level merit list, Middle School Scholarship Examination, 2003, conducted by the Maharashtra State Examination Council, Pune.

Projects

1. **“Music Analysis and Synthesis Using Deep Learning”**
Using Python libraries and GPGPU acceleration
As a part of the coursework for MTech in Computer Engineering.
2. **“Steganography in Cloud Computing”**
Using Java, Amazon Web Services (Elastic Bean Stalk, S3, Elastic Compute Cloud)
As a part of the coursework for Bachelor of Engineering in Computer Engineering.

Publications

1. K. Gaikwad, K. Kulkarni, S. Kohle and P. Patil, "Implementation of Blockchain Technology in IOT Based Smart Home," 2022 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 6-10, doi:10.1109/ICAST55766.2022.10039525.
2. S. Shirodkar, K. Kulkarni, R. Khanjode, S. Kohle, P. Deshmukh and P. Patil, "Layer 2 Solutions to Improve the Scalability of Blockchain," 2022 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 54-57, doi: 10.1109/ICAST55766.2022.10039486.

3. A. Kelkar and K. Kulkarni, "Route Profitability Prediction for Public Bus Transportation System," 2022 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 428-430, doi: 10.1109/ICAST55766.2022.10039610.
4. S. Gaikwad and K. Kulkarni, "Data Collection System based on PWA (Progressive Web App) as SaaS," 2022 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 270-273, doi: 10.1109/ICAST55766.2022.10039543.
5. K. Kulkarni and S. Naik, "A Review of Music Analysis Techniques", International Research Journal of Engineering and Technology (IRJET), Volume 5, Issue 3, March 2018.
6. K. Kulkarni and S. Naik, "Music Analysis and Synthesis", International Research Journal of Engineering and Technology (IRJET), Volume 5, Issue 3, March 2018.
7. K. Kulkarni, K. Wagh, S. Badgujar and J. Patil, "A Study of Recommender Systems with Hybrid Collaborative Filtering", International Research Journal of Engineering and Technology (IRJET), Volume 3, Issue 4, April 2016.
8. A. Killawala, K. Kulkarni and N. Gohel, "Secure Data Storage in Cloud Using Encryption and Steganography", International Organization of Scientific Research - Journal of Computer Engineering (IOSR-JCE), Volume 17, Issue 2, March–April 2015.