Ankit Barai

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OBJECTIVE

Pre-Final year B. Tech student at IIIT Nagpur.I'm curious,eager to learn & always looking to expand fields of expertise. My research interests includes Machine Learning,Comp. vision, Deep learning, Distributed systems and IoT with strong inclination for research.I'm looking for internships in great,enthusiastic teams to work for that will provide me with challenging,interesting work that i can learn from and contribute to.

EDUCATION

Indian Institute of Information Technology, Nagpur,India
Bachelor of Technology (B. Tech), Computer Science and Engineering(CSE)
Expected May, 2021   CGPA: 9.98/10.00 (Rank 1)
Class XII (Senior Secondary Examination),CBSE, July 2017   94%
Class X (Secondary Examination), CBSE,July 2015   CGPA: 10/10

EXPERIENCE

- **Research Intern-Indian Institute of Science,Bangalore,India**May-Jul'19
Automated Visual Analytic and Decision making for Drones
Summer Research Fellowship by Indian Academy of Sciences
Indian Vehicle License plate detection (Deep learning),Vehicle counter(Comp. Vision)
- **Research Intern-Indian Institute of Technology, Kharagpur** Dec'18-Jan'19
Development for Raspberry pi based Automation "Healthcare monitoring system"
- **UG Research assistant - Indian Institute Of Information Technology,Nagpur**
Deep learning algorithms for Stock prediction(Published in SoCTA'19)   Jul-Nov'19

SELECTED PROJECTS

Automated License Plate Extraction Training License plate detector using Transfer learning and using OCR on top of it.
Vehicle counter for Drones Vehicle counting using OpenCV trackers for Real time video counting for Drone analytics.
NSE Stock Prediction Stock prediction using ML,DL algorithms compared to statistical models.
Movie Recommender system Movie recommender using Stacked Autoencoders and RBM on Movielens Dataset.
Result System Complete result system for home university as Java Webapp on Netbeans framework.
Chatroom An app for messaging using TCP Sockets and Multithreaded programming.

PUBLICATIONS & RESEARCH ACTIVITIES

- ***Video analytics for Drones*** Poster in 26th IEEE HiPC'19 Research Symposium
- ***NSE stock prediction: Deep learning way*** Ankit Barai et al.in SoCTA-2019
- ***ACM India Winter School on Hybrid Cloud*** IISc Bangalore & IBM Research
- ***CAP sleep scoring*** Classification of sleep phases using eeg signals(Ongoing work)
- ***Load Distribution in Fog using Evolutionary Game Theory*** (Ongoing)
- ACM India Student Member • Member of Google developers group

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, R, Matlab
Tools and Frameworks: Keras, Scikit learn, Tensorflow,Pytorch, Netbeans, ROS
Web Technologies: Django, HTML, CSS, JavaScript, PHP, Bootstrap
Databases: Oracle, MySQL, NoSQL, Sqlite **Version control:** Git,SVN
Operating Systems: Linux,Windows **Embedded systems:** Arduino, Raspberry pi
Major skills: Computer vision,ML,Deep learning,Robotics & IoT,Blockchain,Cloud.

CERTIFICATION

- **Blockchain** by IBM Research and IIT Kgp on *Nptel(Topper: Nationwide Top 15)*
- **Deep learning** by Udemy • **Machine learning and Data science** by Udacity
- **Hybrid cloud** by ACM,IBM Research and IISc Bangalore

RELEVANT COURSES	• Machine learning • Neural networks and Deep learning • Data Science • Databases • Data Structures • Distributed systems • Operating Systems • Computer Networks • Algorithms • Software Eng. • Mathematics & statistics • Fuzzy logic
AWARDS AND HONORS	• Blockchain certification by IBM Research and IIT Kgp(Topper:Nationwide Top 15) • Received letter of Appreciation from Hon'ble Prime Minister of India for Academic Excellence. •Recipient of Prime Minister Scholarship Scheme by Government of India. •Recipient of Summer Research Fellowship by Indian Academy Of Sciences •Secured Position in top 0.1 % of Senior Secondary in Physics and Mathematics; within top 1.66 % In IIT JEE Advanced 2017
REFERENCES	•Dr.Yogesh Simmhan, Assistant Professor,Indian Institute of science, Bangalore,India; Email: simmhan@iisc.ac.in •Dr.Ashwin Kothari, Dean (Acad), Indian Institute of Information Technology,Nagpur; Email: agkothari72@rediffmail.com