Sahil Dhull

3rd Year Undergraduate

Department of Computer Science and Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2016 - Present	B.Tech	Indian Institute of Technology, Kanpur	8.7/10
2016	CBSE(XII)	Abhinav Public School, New Delhi	97.4%
2014	CBSE(X)	DAV Public School, Kurukshetra	10/10

Scholastic Achievements

- Secured AIR 230 in JEE Advanced 2016 among the 2 Lakh shortlisted candidates.
- Secured AIR 27 in JEE Mains 2016 among the 15 Lakh candidates.
- Cleared National Standard Examination in Physics (**NSEP**), National Standard Examination in Astronomy (**NSEA**) conducted by IAPT (Indian Association of Physics Teachers)
- Awarded KVPY 2014 fellowship, securing AIR 46 (out of a total of about 40,000 students).
- Participated in North-Indian Science Fair 2012 at National Science Center, New Delhi.
- Participated in CBSE Regional Exhibition 2012.
- Awarded National Talent Search Scholarship 2012 by National Council of Educational Research and Training.
- Secured 1st position in State level Essay Writing Competition by Govt. of Haryana in 2010.

Projects

• Painter and Genre Classification | CS771A [Machine Learning]

(Aug'18 - Nov'18)

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Prof. Piyush Rai, Department of Computer Science and Engineering

- Used 2 approaches: Self-designed CNN and Classification after Feature extraction.
- Constructed CNN using convolutions, ReLU activation and Max Pooling and, gained a maximum of 50% test accuracy.
- Used VGG16 and ResNet50 for feature extraction and for classification, used Logistic regression, SVM (with RBF kernel) and K-Nearest Neighbour. Gained a maximum test accuracy of 75.2%.
- Deliver It App | CS252A [Computing Laboratory II]

(Aug'18 - Nov'18)

Prof. Nisheeth Srivastava, Department of Computer Science and Engineering

- Designed a community based delivery app for Android and iOS using geolocation services on IONIC Framework.
- Used Firebase Authentication Service and Firebase Realtime Database.
- Fusion of Inertial Sensing IoT Devices | CS664A [IoT System Design]

(May'18 - July'18)

Prof. Amey Karkare, Department of Computer Science and Engineering

- Learnt about Hardware and Software aspects of OBLU (Multi IMU inertial sensing device).
- Designed and Implemented a Fusion algorithm on Dual Foot-mounted Inertial Sensors data to reduce Systematic Heading Drift resulting in a more precise navigation system.
- Plotted Real-time graphs showing Raw and Corrected trajectories to find out Drift and Distance Errors.
- SAE IIT Kanpur | Team Member

(Jan'17 - Feb'18)

- **Prof. Shantanu De**, Department of Mechanical Engineering
 - Designed and fabricated a Formula race car (F-18) for Formula Bharat, a national collegiate design challenge.
 - Secured 9^{th} position in Design Event, 6^{th} in Business Plan and 15^{th} position among 55 teams at Formula Bharat 2018.

Technical Skills

- Programming: C, C++, Verilog(HDL), Shell Scripting; Familiar: Python, HTML, PHP, Javascript, SQL
- Familiar Tools: Vim, SPIM, Git, Octave, GNUPlot, R, LATEX, GPU programming with CUDA, IONIC Framework
- Softwares: ANSYS (Structural), AutoCAD Fusion, Solidworks, Autodesk Inventor

Relevant Courses

Compiler Design*	Database Management System*	Formal Methods in Robotics*
Machine Learning	Algorithms-II	Operating Systems
IoT System Design	Data Structure and Algorithms	Computer Organization
Probability and Statistics	Computing Laboratory	Introduction to Electronics

*ongoing courses

Extra-Curricular Activities

- Bagged 3rd position as pool (Hall-3) in Robotricks, Takneek'16 (Inter-hall Technical Competition): Built a robot to preform simple tasks like lifting blocks and detecting coloured strips.
- Took part in Dance Competition in Galaxy(Inter-hall Cultural Event)-2017.
- Played Lawn Tennis as Compulsory Physical Activity.
- Participation at State Level Swimming Competition in Haryana, Category Under 14 boys.