HIMANSHU CHAUHAN

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Indian Institute of Technology, (B.H.U), Varanasi (+91)7351452977
Junior Undergraduate in Mechanical Engineering with Specialization in Industrial Management

EDUCATION

Year	Degree	Institute	%/CPI
2016-2020	B.Tech in Mechanical Engineering	IIT BHU Varanasi	**8.88/10**
2014-2015	Intermediate	Translam Academy International	92.8

ACADEMIC ACHIEVEMENTS

Certifications	▪ Neural Networks and Deep Learning by deeplearning.ai	2018
Competitive Exams	▪ IITJEE: **AIR 4996** out of 4.7 lakhs students | JEE MAIN: AIR 10050 out of 10.5 lakhs students	2016

LANGUAGES

PYTHON, C++

TOOLS

Numpy, Git, Scikit, TensorFlow, Keras, OpenCV

AREAS OF INTEREST

Computer Vision, Medical Image Computing, Machine Learning

WORK EXPERIENCE

Indian Institute of Foreign Trade, Kolkata	▪ Identified the financial predictors (52) to forecast Stock Market Volatility of Indian Stock Market. ▪ Applied Machine Learning model and accuracy is improved in comparison of similar work from **Journal of Banking and Finance.**

KEY PROJECTS

Autonomous Robotic Arm for Warehouse Logistics *UnderGraduate Project under the guidance of Prof. Kripa Shankar*	▪ Design and Fabrication of **6 degree of freedom** autonomous robotic arm to sort the objects based on shape and colour. ▪ Used Computer Vision principles for object localisation and detection through camera and determine the object location and color. ▪ Used Robotics principles for kinematic movements of links using servo motors.
Histopathological Image Classification using Deep Learning *under the guidance of Prof. S.K. Singh (August 2018-Ongoing)*	▪ Studied Medical Image Computing techniques for Histopathological Images ▪ Used **Data Augmentation**, **Stain Normalization**, and **Stain Augmentation** techniques that improved the **accuracy by 7%**. ▪ Used layer features of pretrained **VGG16** and concatenated to classify the feature vector. ▪ Achieved best accuracy of **97.2%** and submitted the work to **Journal of Information Science, Elsevier.**
Restoring Old Images *(September 2018- Ongoing)*	▪ Studying Image Inpainting Techniques using **Generative Adversarial Networks**. ▪ Improving state-of-the-art techniques to be applied on any type of images.
Exploratory Project *(August 2017- November 2017)*	▪ Designed a model of **Light-Weight** innovative DUSTBIN under the guidance of Prof. AK Agarwal to be installed at public places. ▪ Served as a purpose of reducing spillage while picking the waste from it, this helped in reducing stink around the dustbin. ▪ Reduction of spillage by **20%** is observed at installed places.

ACHIEVEMENTS

Philips Hackathon on Data Science	▪ Cleared Round 2 of Data Science Hackathon	2018

	▪ Solved the problem of Multi-Class Classification using Random Forest Algorithm achieving 88.9% accuracy	
National Sustainability Case Challenge	▪ Achieved **Top 8** finals among **250 Teams** across India ▪ Diagnosed the problem of Global Warming and proposed some good solutions.	2018
River Rejuvenation Conclave	▪ Surveyed the prevailing conditions of pollution in Ganges River ▪ Won the event with **FIRST PRIZE** for innovative idea of **MANURE CENTERS**	2016