

PRIYA KUMARI PANDIT

M.Tech. (1st semester)
Industrial & Management Engineering
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EDUCATION

Year	Degree/Examination	Institute/Board	CGPA/Percentage
2024-26	M.Tech 1st year	Indian Institute of Technology, Kanpur	---
2019-23	B.Tech. (Mechanical Engineering)	Indore Institute of Science and Technology, Indore (RGPV Bhopal)	8.87/10
2019	Intermediate (Class XII)	Central Board of Secondary Education (CBSE)	86.8/100
2017	Matriculate (Class X)	Central Board of Secondary Education (CBSE)	9.2/10

INTERNSHIPS

Research Internship | SPARK IIT Roorkee

June 2022 - July 2022

- Worked on the "Numerical Modeling of Blast Effects using Blastform" project under the supervision of Prof. Ankit Bansal.
- Studied blast effects resulting from spherical explosions with aluminized energetic material.
- Studied Mesh generation, conversion, manipulation; pre and post processing tools, Adaptive Mesh Generation, Activation Model, After Burn Model and Multi phase Model.

PROJECTS

Attendance system Face Recognition using Deep Learning & Machine Learning

Oct 2021

Pantech Solutions Training Project

- Developed an automated attendance system using facial recognition.
- Employed feature extraction and DNN classification and implemented the system with Python and OpenCV.
- Achieved more efficient attendance recording by comparing real-time images with an enrollment database.
- Skills gained: Facial recognition technology, Feature extraction from Images, DNN classification

Image Classification using CNN | OpenCV

Oct 2021

Pantech Solutions Training Project

- Trained an image classification model using Convolutional Neural Networks (CNN) with OpenCV.
- Pre-processed images for optimal model performance. Designed and trained a CNN model for efficient image classification
- Skills gained: CNN model design and training, Image pre-processing technique

Fraudulent Transaction Detection | Machine Learning

July 2024

Self-Project

- Developed a machine learning model to detect fraudulent transactions using a 6.3 million-row dataset.
- Performed feature selection, model tuning, and validation and achieved good detection accuracy.
- Learned Feature selection techniques, Machine Learning

Mall Customer Segmentation Data | Clustering and Machine Learning

July 2024

Self-Project

- Implemented KMeans clustering on mall customer data for customer segmentation. Identified target customer groups based on age, gender, income, and spending score.
- Acquired skills in KMeans clustering for segmentation.

COURSEWORK AND SKILLS

Academic Courses	Introduction to Computing* Probability and Statistics* Operations Research for Management* Statistical Modeling for Business Analytics*
Technical Skills	Machine Learning, Data Science, Operational research, Python Programming, Data Analysis
Computer Languages	Python (Libraries: NumPy, Pandas, Matplotlib, ScikitLearn, Tensorflow), SQL
Software Packages	OpenCV, MS Office, Jupyter Lab
Languages	Hindi (SRW), English (SRW)

PUBLICATIONS

Design and Development of Hydraulic Gripper for picking and placing the Materials
International Journal for Research in Applied Science & Engineering Technology (IJRASET)

Jan '13 2021

CERTIFICATES

- SOLIDWORKS, INDO GERMAN TOOL ROOM, INDORE
- Pantech Solutions certificate for Artificial Intelligence Master Class (Python) Internship, Pantech ProLabs India Pvt Ltd (Pantech Solutions)
- Elite Techno Groups certificate FEA/CFD Internship, Elite Techno Groups