Harsh Nandwana
Jr. Data Scientist
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EDUCATION

- **Swami Keshvanand Institute of Technology** — Jaipur, India
  Bachelor of Technology - Mechanical Engineering; 67.7 % — *July 2017 - June 2021*

- **Pragati Vidya Peeth** — Gwalior, India
  XII CBSE;—69 % — *June 2017*

EXPERIENCE

- **M/s, Volks-Verein LLP** — Noida, India
  Cyber Security Intern — *Oct 2021 - Dec 2021*
  - Built a prototype architecture for secure RFID parking systems
  - Network penetration testing on electric charging station
  - Worked on automating web penetration procedure to find most vulnerable points Read more

- **PIMCO MACHINES Pvt.Ltd.** — Daman, India
  Summer Intern — *June 2019 - July 2019*
  - Developed a hopper with 6% lesser fly back for Granulator-400
  - Redesigned Granulator-400 to check for dimensional clearances

PROJECTS

- **Brain MRI segmentation (Computer Vision, Image Segmentation)** — **Read more**:
  - Predict Area, coordinates and shape of tumor using FLAIR abnormality in brain MR images .
  - Implemented various research papers including Unet++, Unet X Resnet, CANET, also tried to create a new architecture
  - Obtained highest ever Dice score of 0.945 compared to 0.82 in paper

- **Restaurant Recommender (Recommender Systems)** — **Read more**:
  - Recommend restaurants to customer based on last purchase and ratings to enhance user experience
  - Analyse relations based on features and use it to find most similar and effective pairs
  - Deployed using Streamlit and hosted on Heroku here

- **Apparel Recommendation System(Recommender System, NLP, Image processing)** — **Read more**:
  - Built a content based Recommender engine on Amazon apparel data
  - Used the Product Titles and images (pretrained VGG-16 network) generate recommendations.

- **Stack Overflow: Tag Prediction(Multi-label Classification, NLP)** — **Read more**:
  - Suggest the tags based on code snippet posted on Stackoverflow.
  - Applied NLP techniques for feature engineering, along with TF-IDF Weighted Word2Vec for text vectorization.
  - Applied various ML algorithms from Logistic Regression, Naive Bayes to ensembles (Random Forest and GBDT)

- **Twitter based Depression predictor (NLP, Supervised learning)** — **Read more**:
  - Use tweets to analyze weather or not a person is depressed
  - Perform data cleaning on tweets and use methods like word to vec and tfidf to convert words to vectors and use classification prediction methods

PUBLICATIONS

- : H. Nandwana, V. Kashyap, A. Chechani, P. Saraswat and A. Vijayvargiya, "Design analysis of payload carrying quadcopter using finite element analysis," 2021 Smart Technologies, Communication and Robotics (IEEE), 2021, pp. 1-5 Read more.

HONORS AND AWARDS

- Certificate of Appreciation for successful completion of project for India Army
- Runner up at Ideationology Challenge under TEQIP -III
- Innovation Award winner JIGYASA'18
- Top 4% hackers globally by Try Hack Me

SKILLS SUMMARY

- **Languages**: Python, SQL, Julia, Bash, LaTex
- **Frameworks**: Scikit, Pandas, TensorFlow, Keras, PyTorch, Flask, NLTK, SpaCy,
- **Tools**: Jupyter-notebook, Docker, Sagemaker, Heroku, MySQL, Burp
- **Platforms**: Linux, Web, Windows, Arduino, Raspberry, AWS