Hemlatha Pandey

Email: pandey.hema98@gmail.com
Mobile: +91-995-8396-376

Portfolio: portfolio_website/
LinkedIn: hemlatha-pandey/
Github: hemlathapandey3

EDUCATION

BITS PILANI, K K Birla Goa Campus Goa, India
Masters in Engineering - Computer Science ; GPA: 8.62 *Nov 2020 - June 2022*
__Courses:__ *Advanced OS, Advanced Algorithms, Advanced Networks, Deep Learning, Research Practice, Advanced Computer Architecture*

Guru Gobind Singh Indraprastha University New Delhi, India
Bachelors of Technology - Computer Science ; GPA: 8.7 *Aug 2016 - Oct 2020*
__Courses:__ *OS, DBMS, Data Structures, Algorithms, Networks, Machine Learning, OOPs, Compiler Design, JAVA*

SKILLS SUMMARY

- **Languages:** JAVA, SQL, Python, C, HTML, CSS
- **Frameworks:** Scikit, TensorFlow, Keras, PyTorch
- **Big Data:** Apache Airflow, Apache Spark, Tableau, Apache Hive, Presto
- **Others:** GIT, JIRA, LaTex, BitBucket, Docker
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

PROJECTS

- **Network Intrusion Detection System using Machine Learning and Deep Learning (Network Security, Deep Learning):** Classifying network traffic using Deep Learning and Machine Learning models trained on various IDS datasets.
  Tech: Python, Tensorflow, Keras, scikit-learn (Dec '21)

- **Gaze Estimation using wearable camera (IoT, Computer Vision)**: Using CNN model to detect eye region landmarks and gaze direction in real time using wearable camera.
  Tech: Python, Tensorflow Lite, Arduino, OpenCV, sparkfun microcontroller. (Dec '21)

- **Predicting NBA Games Winner using Machine Learning (Machine Learning)**: Using classical machine learning algorithms to predict NBA games winner.
  Tech: Python, scikit-learn, jupyter notebook (Jul '19)

- **Anomaly Detection using Federated Learning (Network Security, Federated Learning)**: Implemented Federated Learning to reduce load on the server by training data locally also ensuring privacy.
  Tech: Python, PyTorch, jupyter notebook (Dec '19)

EXPERIENCE

Western Digital Bangalore
Data Engineering Intern *Jan 2022 - Present*
- ○ **Work**: Creating and maintaining data pipelines using Apache Airflow, Python, SQL and Hive. Data Visualization using Tableau

The School Social New Delhi
Web Developer (Internship) *Feb 2020 - Aug 2020*
- ○ **Work**: Creating landing pages for registration, payment portals, events page using HTML, CSS, JS, PHP and MySQL

IIT Roorkee Roorkee, Uttarakhand
Summer Intern *Jun 2019 - July 2019*
- ○ **Project**: Created project based on using Machine Learning Algorithms to predict NBA games winner

PUBLICATIONS

- **[1]**: HIS 2021- Intrusion Detection System based on Machine and Deep Learning Models: A Comparative and Exhaustive Study **LINK**

- **[2]**: S. Singh, S. Bhardwaj, H. Pandey, and G. Beniwal. Anomaly detection using federated learning. Proceedings of International Conference on Artificial Intelligence and Applications. Advances in Intelligent Systems and Computing, vol 1164. Springer, Singapore. **LINK**

POSITION OF RESPONSIBILITY

- **Chief Advisor**: International Organization for Software Developer, MSIT Branch
- **Chief Organizer**: Genesis - Cultural Fest of MSIT
- **Chief Organizer**: Avensis - Technical Fest of MSIT

EXTRA CURRICULARS

- National BasketBall Player - Under-16 Uttarakhand
- Head of Aarambh - The Dramatic Society of MSIT
- Best Athlete of the College 2016-17