Ashish Upadhyay

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EDUCATION

IIIT NAYA RAIPUR
BTech
Computer Science and Engineering
June 2019 | Raipur, CG
CGPA: 8.33

LINKS

Github:// **panditu2015**
LinkedIn:// **ashishu007**
Facebook:// **panditu2016**
Twitter:// **@rvaaau**

COURSEWORK

Artificial Intelligence
Deep Learning
Advanced Machine Learning
Machine Learning
Big Data & Cloud Computing
Internet of Things
Computer Vision
Data Mining & Data Warehousing

SKILLS

PROGRAMMING

Python • R • Java
Javascript • C • C++
SQL • Matlab • LaTeX

FRAMEWORKS

Data Science
Keras • Tensorflow • Scikit-Learn
Pandas • Matplotlib • ROS
NumPy • OpenCV • NLTK
Development
Docker • Flask
SQLAlchemy • PostgreSQL
React.js • UML • ThingSpeak

ALGORITHMS

Ensemble Methods • k-NN
Random Forest • Xg Boost
Naive Bayes • k-Means
CNN • RNN • LSTM

INTERESTS

Autonomous Path Planning
Data Science
Machine (& Deep) Learning
Natural Language Processing

EXPERIENCE

ROBERT GORDON UNIVERSITY | NLP/ML Research Intern
Information Extraction and Requirement Mapping in Regulatory Documents

- Information Extraction from Oil and Gas regulatory documents,
- Classifying compliance requirements and mapping them to different taxonomies of people and equipment.
- Successfully classified highly imbalanced text datasets with high F1 score.

NATIONAL INFORMATICS CENTRE | Deep Learning Intern
Pronunciation Similarity Matching using Deep Learning

- Developed a Client-server model for pronunciation matching.
- Extracted the MFCC features from speech to train a CNN model in Keras.
- Model to be used by school students of Chhattisgarh.

ROBERT GORDON UNIVERSITY | Machine Learning Intern
Machine Learning and Optimization in Supply-Chain Management

- Automated the task of creating jobs of picking items from different places in Scotland and minimizing the number of trucks used.
- Developed an API using Flask and Vue.js.

IIITM GWALIOR | AI & Robotics Intern
UAV-Robot Relationship for Coordination of Robots on a Collision Free Path

- Developed an algorithm using A* & Probabilistic Road Map for the coordination of multiple robots on a collision free path using an UAV. [Published Paper].

ACADEMIC PROJECTS

- **Coordination of Intelligent Agents on a Pre-Defined Path using PSO.** [GitHub]
- **Twitter Sentiment Analysis of the Policies of Modi Government.** [GitHub]
- **Handwritten Character Recognition using Deep Learning.** [GitHub]
- **IIoT: Use of IoT in Petroleum Industry Automation.**
- **Analysis of Different FISs used in Decision Making for Secondary Users in Cognitive Radio Network.** [Published Paper]

ACHIEVEMENTS

- **Studentship at RGU**: £1231 per month during 8^{th} semester internship.
- **Studentship at RGU**: £1000 per month during summer internship.
- **Member of Core Team**: Technovate 2018 (Techno-Cultural Fest of IIIT-NR).
- **Member of Organizing Team**: Industry-Academia Meet 2017, IIIT-NR.
- **Head Organizer**: Connaissance 2016 (Literary cum Cultural Fest of IIIT-NR).
- **2nd Runner-up**: Breaking Bugs, Technovate 2017 (Code De-Bugging).
- **Best Delegate**: Divya Jyoti National Youth Parliament 2017, Raipur.

PUBLICATIONS

[1] S. Tripathi, A. Upadhyay, S. Kotyan, and S. Yadav. Analysis and comparison of different fuzzy inference systems used in decision making for secondary users in cognitive radio network. *Wireless Personal Communications*, 104(3):1175–1208, 2019.

[2] A. Upadhyay, K. R. Shrimali, and A. Shukla. Uav-robot relationship for coordination of robots on a collision free path. *Procedia Computer Science*, 133:424–431, 2018.