

Subrat Prasad Panda

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EDUCATION

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| Nanyang Technological University <i>PhD in Computer Science and Engineering</i> | Singapore Jan. 2023 – ** |
| Indian Statistical Institute <i>Master of Technology in Computer Science, CPI: 82.1%</i> | Kolkata, India Jul. 2019 – Jul. 2021 |
| National Institute of Technology <i>Bachelor of Technology in Electronics and Instrumentation Engineering, CPI: 7.92/10</i> | Silchar, India Aug. 2012 – May 2016 |
| Jawahar Navodaya Vidyalaya <i>CBSE 10th CPI: 9.6/10 and CBSE 12th CPI: 88.6%</i> | Cuttack, India Aug. 2006 – Mar 2012 |

EXPERIENCE

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| Research Associate <i>CNRS@CREATE</i> <ul style="list-style-type: none">Designing a granular control system for micro-grids using DRL | May 2022 – Dec 2022 Create Way, Singapore |
| Machine Learning Engineer <i>InFocusp Innovation Pvt. Ltd.</i> <ul style="list-style-type: none">Solving Abstraction and Reasoning Challenge (ARC) with Reinforcement Learning | Dec 2021 – May 2022 Pune, India |
| Research Engineer <i>Technology Innovation Hub on Autonomous Navigation (TiHAN), IIT Hyderabad</i> <ul style="list-style-type: none">Development of braking and throttle control using Arduino for a test vehicleDeployment of lane detection model on NVIDIA AGX board | Aug 2021 – Oct 2021 Hyderabad, India |
| Aviation Officer <i>Hindustan Petroleum Corporation Limited (HPCL), Chandigarh International Airport</i> <ul style="list-style-type: none">Maintenance, Repair and Management of Equipment for Aircraft Refueling | Jul 2016 – Oct 2018 Chandigarh, India |
| Summer Intern <i>Defence Research and Development Organization (DRDO)</i> <ul style="list-style-type: none">Worked on an Image Processing Project at Defence Terrain Research Laboratory (DTRL) of DRDO | May 2015 – Jul 2015 New Delhi, India |

PUBLICATIONS

- Panda S.P.**, Ray K, Banerjee A. Service Allocation / Placement in Multi-Access Edge Computing with Workload Fluctuations. In proceedings of the 19th International Conference on Service Oriented Computing (**ICSOC**) 2021, Dubai.
- Panda S.P.**, Banerjee A. and Bhattacharya A., User Allocation in Mobile Edge Computing: A Deep Reinforcement Learning Approach. In proceedings of the 28th IEEE International Conference on Web Services (**ICWS**) 2021.
- Panda S.P.**, Ray K. and Banerjee A., Dynamic Edge User Allocation with User Specified QoS Preferences. In proceedings of the 18th International Conference on Service Oriented Computing (**ICSOC**) 2020, Dubai, pages 187-197.
- Panda S.P.**, Image contrast enhancement in spatial domain using fuzzy logic based interpolation method, 2016 IEEE Students' Conference on Electrical, Electronics and Computer Science (SCEECS), 2016, pp. 1-4, doi: 10.1109/SCEECS.2016.7509315.

PROJECTS

1. **M.Tech Thesis (2021)**: “Strategies for User Allocation and Service Placement in Multi-Access Edge Computing” under the supervision of Prof. Ansuman Banerjee.
2. Image classification using Tensorflow on the MNIST fashion and handwritten image dataset.
3. Image smoothing, filtering and analysis in frequency domain using DFT.
4. Implementation of Linear Regression, SVM and CNN from scratch, Oct 2020
5. **B.Tech Thesis (2016)**: “Real-Time Position Control of DC Motor using PID and Fuzzy Logic” under the supervision of Dr. Munmun Khanra.
6. Colored Image Contrast Enhancement in Spatial Domain using Histogram Equalization and Cubic Spline Interpolation, Developed in C++, May 2015 – July 2015(DRDO Summer Intern)
7. Gesture Controlled Mouse Pointer using LabVIEW, April 2015 (Mini Project)

ACHIEVEMENTS

- General Electric Edition Challenge** | *Top 25 Finalist* 2016
- Internet of Things based Engine Exhaust Gas Monitoring System
- Texas Instruments Innovation Challenge 2015** | *1st Round* 2015
- Non-Invasive Digital Blood Pressure Meter

RESEARCH INTERESTS

1. Deep Learning 2. Deep Reinforcement Learning 3. Explainable RL 4. Computer Vision

TECHNICAL SKILLS

Languages: Python, C, Matlab, Latex
Frameworks: Pytorch, Tensorflow, ROS

RELEVANT COURSEWORK

1. Neural Networks 2. Data-Mining 3. Pattern Recognition and Image Processing 4. Computer Vision

REFERENCES

Dr Ansuman Banerjee, Professor, Advanced Computing and Microelectronics Unit, Indian Statistical Institute, Kolkata (India), email: ansuman@isical.ac.in

Dr Arani Bhattacharya, Assistant Professor (CSE), Indraprastha Institute of Information Technology, New Delhi (India), email: arani@iiitd.ac.in

Dr Munmun Khanra, Assistant Professor, Dept. of Electronics and Instrumentation, National Institute of Technology, Silchar(India), email: munmun@ei.nits.ac.in