

Sushant Gautam

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Country of residence: Norway Gender: Male DoB: 19.08.1997 Nationality: Nepalese

Educational Experiences

Master's Degree in Informatics & Intelligent Systems Engineering | *Tribhuvan University*
Thapathali Campus Full Scholarship for Academic Merit, Top of Class 2020.10 - 2022.10

Relevant Courses: NLP, CV, Applied ML, DL, Computational Intelligence, Information Theory, Information Visualization, Optimization

Bachelor's Degree in Computer Engineering | *Tribhuvan University*
Pulchowk Campus Full Scholarship for Academic Merit 2015.10 - 2019.10

Relevant Courses: AI, Probability & Statistics, Data Mining, Big Data, Theory of Computation

Technical Capabilities

- **Programming:** Python, C/C++, Android, Java, Django, SQL, etc.
- **Libraries:** TensorFlow/Keras, Torch, Pandas, NumPy, Scikit, SciPy, Matplotlib, etc.
- **Languages:** English (Fluent), Nepali (Native), Hindi (Advanced)

Work Experiences

PhD Student | *Simula Metropolitan Center for Digital Engineering, Oslo, Norway* 2023.05 - Present

- Research on the potential applications of Multimodal Understanding on multiple domains

Adjunct Lecturer | *Tribhuvan University, Thapathali Campus, Kathmandu, Nepal* 2022.10 - 2023.05

- Lectures and Labs for *A Practical Approach to Deep Learning* course (Contract)
- Supervising MS projects related to deep learning.

Senior Engineering Manager | *North Star Developer's Village, Lalitpur, Nepal* 2019.04 - 2023.05

- ML Face Verification; Pose-based exam cheating prevention; Image/audio annotation, ML training platform
- Semantic based Essay Ranking; Feedback Bot; Topic Modelling/Analysis; ML functions/models through API.

AI Intern | *Leapfrog Technology, Kathmandu, Nepal* 2018.10 - 2019.03

- Predictive models for time series modeling for weather and pollution prediction.
- ARIMA and windowing-based models. Model deployment and web-based interactive interface.

Student Research Assistant | *DOECE for UGC Research Grant Project* 2018.01 - 2018.09

- Assistant to Prof. Dr. Nanda Bikram Adhikari. Research & implement appropriate algorithms & tools.
- Storing sensor data with GPS trace & data mining. RNN, RapidMiner, Hadoop, WebSocket, etc.

Academic Projects

AI-Based Soccer Game Summarization: From Video Highlights to Dynamic Text Summaries | *MS Thesis*

- Best thesis in the department (by scores obtained).
- In collaboration with the Department of Holistic Systems, **SimulaMet**.

Deep Learning-based Pose Estimation for Dystonia Score Prediction | *MS Project*

- MS Project in Collaboration with **NAAMII**.

Assessment of Spatiotemporal Weather and Pollution Proxies with RNN and ARIMA | *Bachelor's Thesis*

- Best Project Award by Department

Human Facial Landmarks Detection using Multi-Layer Perceptron | *Bachelor's Project*

Selected Publications

- Soccer Game Summarization using Audio Commentary, Metadata, and Captions [NarSUM, ACM Multimedia, 2022]
- Assisting Soccer Game Summarization via Audio Intensity Analysis of Game Highlights [IOE Graduate Conference, 2022]
- Near Real-Time Mobile Profiling and Modeling of Fine-Scale Environmental Proxies Along Major Road Lines of Nepal [Springer, Cham, 2020]
- Sentence Ranking and Answer Pinpointing in Online Discussion Forums Utilizing User-generated Metrics and Highlights [NaSCoIT, 2019]
- Real Time-Based Smart Traffic Light System with its Simulation using 8051 Microcontroller [KEC Conference, 2018]

Awards & Certifications

- Full Scholarship for Participation at NAAMII's Winter School in AI [Deep Learning, Computer Vision, Stats. & Algorithms, Data Science, Optimization. Met with AI fellows from renowned universities and labs.]
- Hult Prize at TU, 2017 Winner [Presented a sustainable idea to empower refugees in Nepal using an e-commerce platform and got the opportunity to present at Hult Business School, Dubai.]
- Mentor at Global Venture Bootcamp at Asian Development Bank, the Philippines [Enhancing social ventures using emerging technologies.]
- Participant, IEEE AI & Big Data Workshop 2018 [Led multiple IEEE Student Chapter activities on Campus.]
- Participant, UNICEF's 1000 Golden Hours Code Camp, 2017 [Best Prototype Award for Mobile App idea.]

References

Prof. **Pål Halvorsen**, Dr.Scient.
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