

POSTGRADUATE PERSONAL STATEMENT EXAMPLE

APPLIED MACHINE LEARNING

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Postgraduate Personal Statement Example: Applied Machine Learning

I am an Automation major at the Marshall Institute of Technology. Having developed my experience of working with machine learning systems during my undergraduate studies, the next step on my academic journey is to successfully complete an MSc in Applied Machine Learning. I am confident that I have the required knowledge, experience and skills to make the most of every opportunity offered by the course and to add value to your department.

The interdisciplinary knowledge gained during both my degree studies and as a result of completing a range of co-curricular courses makes me a well-qualified and unique candidate. I have immersed myself in the mathematical curriculum, focusing specifically on Probability and Mathematical Statistics, Complex Functions and Linear Algebra. These disciplines have afforded me a deep understanding of fundamental theories in machine learning such as the Empirical Risk Minimization Principle, Principal Component Analysis and Gaussian Mixture Models, and I am looking forward to having the opportunity to further contextualise this knowledge through practical application on the MSc. I have also completed a wide range of programming and software implementation courses, including Computer Technology and Programming and C Language Programming Practice which form the foundation of contemporary industries such as autonomous driving, medicine and robotics.

Additionally, I have developed my knowledge of electronic engineering, automatic control and circuit design, and consequently gained the understanding essential for hardware application in the real world. Attending a course in Pattern Recognition, I learned statistical, intelligent and structural pattern recognition and investigated the implementation, effects and limitations of BiLSTM, TextCNN, and SWEM. This course was particularly academically demanding and is a positive example of my ability to successfully meet deadlines, research with accuracy and study independently. I was also part of a student team working on the AI-based Medical Image Segmentation and Recognition Project. Developing GAN-based CT Image Segmentation and Recognition, our team realized automatic CT image classification and labelling of true and false lumens of the aorta based on Vox2voxGAN. This experience helped me to realize that AI could not only facilitate the challenges we face daily, but also save lives,

as the resultant medical-aided diagnosis system has the potential to reduce mortality as a result of shortening the diagnosis delay for fast-onset diseases such as aortic dissection. Interested in testing AI concepts in a practical setting, I was aware that the Flood Fill Algorithm is considered an optimal choice for path-planning of the Maze Robot. However, my research showed that it was limited and less efficient than the Wall Follower Algorithm when tested under applied, realistic conditions. I am looking forward to having the opportunity to further test the potential of AI in a practical context on the Applied Machine Learning program.

My class at the Marshall Institute of Technology encourages top students to excel, and I ceaselessly strive to meet this expectation by pushing boundaries and challenging technological limitations. The curriculum has fine-tuned my English reading, listening, speaking and writing skills. Moreover, for the past two summers, I have participated in the Buckley Global Engagement in Academic Research Program and Slater Machine Learning Program. The Slater program exposed me to Deep Learning and Computer Vision whilst giving me a thorough grounding in Autonomous Driving. In a subsequent project, I employed multivariate normal distribution, perceptron, CNN, and Python (Tensorflow and Pytorch). The NCSU experience enables me to implement data collection, processing and visualization in Python to address practical problems. By collaborating with my teammates from around the world, my communicative and co-operative skills were strengthened, and the multi-cultural environment encouraged me to think critically and air my opinions courageously.

I consider Gabriel University to best fit my interests and ambitions, and anticipate that the program will equip me to address the newly emerging challenges in machine learning. GU provides an inclusive, international atmosphere for free thinking and discussion, which is conducive to innovation. I am looking forward to participating in debates focusing on topics such as the impact of AI artists on the human perception of art or whether deep learning should be treated as the real direction of machine learning, considering it depends more on recent improvements to hardware than on principle innovation. Model UN discussions at high school and summer camps during college have all conveyed to me the significance of interaction with talents from diverse backgrounds in finding practical and efficient solutions to some of the world's biggest challenges, such as ethical safety, transparency and fairness, and future directions in AI. I am aware of the advantages that higher schools of science and engineering have over generalist universities, including course content, faculty members, resources, opportunities and laboratory conditions. Having worked with talented individuals several times, I know that their expertise, enthusiasm, and perseverance will motivate me to achieve results of the highest standard.

As an MSc student, my goal is to gain a richer theoretical and practical understanding of aspects of machine learning such as computer vision and multi-model information processing. Subsequently, I plan to complete a Ph.D. in order to further consolidate my knowledge framework and skills within the machine learning sector, prior to realising my career ambitions relating to autonomous driving and intelligent robotics. Machine learning is an exciting, dynamic and creative field of study, and its capacity to overcome challenges faced by our global community is significant. I am looking forward to playing my role at the forefront of this field of engineering, in a career which I know will satisfy my intellectual and academic curiosity as well as contribute to the improvement of the world in which we live.

