

POSTGRADUATE PERSONAL STATEMENT EXAMPLE

ARTIFICIAL INTELLIGENCE & BIG DATA COMPUTING

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Personal Statement Example: AI & Big Data Computing

In an era enveloped by modern technology, patterns of consumption and means of payment have changed dramatically and irrevocably. The global development of online shopping and currency digitisation allows us to buy whatever we need whenever we need it. Moreover, we can complete transactions quickly and securely using facial recognition. As a young adult who has been heavily influenced by digital shopping, I became interested in the design and development of shopping software and its corresponding payment technology. Studying for a BSc in Software Development with a minor in Computer Science at the University of Buckley, learning programming felt like learning to perform magic. I saw how visionary ideas could be realised in computer language, making machines more intelligent and efficient. I am eager to continue exploring the mystery and potential inherent in computer science. I am confident that this master's in Artificial Intelligence and Big Data Computing at Slater Polytechnic University is the ideal next step to improve my professional knowledge and skills.

Throughout my undergraduate studies, I have been proactive in learning systematic computer theory and programming, laying a foundation in mathematics and science, developing the ability to think independently and improving my logical thinking and creative skills. During this process, I became increasingly fascinated by artificial intelligence. Electing to study an Introduction to Artificial Intelligence course, I explored heuristic search, game playing, machine learning, neural networks and probabilistic reasoning. More importantly, I experimented with applying algorithms and techniques related to AI across a range of specific contexts, allowing problems to be solved and functionality optimised.

During my experiments, I undertook data pre-processing, managing dirty data and normalisation with Weka on the Pima Indian diabetes dataset, which contains 768 instances described by eight numerical attributes. Subsequently, I used Python to implement the K-Nearest Neighbour and Naïve Bayes algorithms to build two classifiers, using some data instances as training data to make diabetes predictions. Additionally, I implemented 10-fold hierarchical cross-validation to evaluate the performance and accuracy of both classifiers on the same data set. When I ran Decision Tree, Multi-Layer Perceptron, Support Vector

Machine and Random Forest with Weka to calculate accuracy and compare, I found that different algorithms showed conflicting results in different contexts. To improve the accuracy of my prediction, I performed Correlation-based Feature Selection on the data, effectively removing the influence of irrelevant factors. Successfully completing this project, I developed a better understanding of the principles and potential of machine learning and enhanced my practical and analytical skills. I believe this experience has prepared me well for graduate study.

In addition to my active academic engagement and exploration, I also have a wealth of relevant internship and practical experience. During my exchange program at Marshall University, I deepened my understanding and application of data mining by pre-processing, visualising and analysing data on China's demographic change and urban-rural distribution and regression prediction. During my internship at Pounce Artificial Intelligence Technology Co Ltd, I interacted with the algorithmic models of facial expression recognition and sentiment analysis. As a result, clients from diverse backgrounds and age groups, such as university students and older people in nursing homes, can receive accurate sentiment analysis reports and suggestions for improvement after using our products for human-computer interaction. I now have a compelling clarity of vision for the future application of this technology in medical treatment, in monitoring patients' emotions and generating new opportunities for well-being and positive mental health.

Subsequently, I joined Fourth Sky Network Technology Co Ltd as an intern. In developing the business requirements for portraits, I took the initiative and taught myself Python Spider, parsing the Baidu Tieba and Douban websites to obtain nearly 1,000 pieces of avatar data. I also compared the Baidu image recognition function when implementing the image recommendation function. The obvious difference in results piqued my interest in exploring graph recognition technology within the sphere of artificial intelligence. The skills I acquired deepened my understanding of algorithmic models, data analysis and machine learning, shaping the direction of my choice of both my master's study and career ambitions.

Artificial intelligence has already had some disruptive effects on human life and is bound to make positive and currently unforeseen leaps forward in the future. Consequently, I believe that Slater Polytechnic University offers the most suitable program for the next phase of my academic study and personal development. I look forward to learning how to apply and design more complex applications, analyse data using cutting-edge statistical techniques and gain greater machine learning knowledge. I also aim to extend my professional skills by studying Natural Language Processing and Speech and Image Recognition as my elective courses. I am passionate about collaborating with others and am keen to meet and learn from a group of like-minded peers. A motivated student, I am eager to use my undergraduate knowledge and industry experience to focus on language analysis and action recognition in artificial intelligence. Ultimately, I hope to realise intelligent furniture and create products that offer all a convenient life. I look forward to playing a creative and dynamic role as a valued member of your faculty and taking my place in the next generation of AI and big data breakthroughs.

