STATEMENT OF PURPOSE

Why Higher Education?

My passion for understanding the intricacies of life has been a driving force in my life since my formative years. As I progressed through my education, I realized that pursuing a career in software engineering would provide me with a platform to explore my curiosity further. After completing my Bachelor's degree, I realized that I wanted to delve deeper into the field and contribute to it in a meaningful way. Therefore, I have decided to pursue a research-oriented course in higher education.

My motivation to pursue a research-oriented course stems from my desire to contribute to the field of software engineering. I am eager to conduct research on emerging technologies and to explore innovative solutions to complex problems. Furthermore, I am interested in exploring the potential applications of software engineering in domains such as healthcare and finance. Pursuing a research-oriented course in higher education will provide me with the opportunity to work on cutting-edge projects and collaborate with leading experts in the field.

Overall, I am motivated to pursue a research-oriented course in higher education to expand my knowledge, contribute to the field, and work on challenging projects. I am confident that this course will equip me with the skills and knowledge necessary to make a meaningful impact in the field of software engineering.

As a software engineer, I am constantly seeking ways to improve my skills and knowledge. Pursuing a research-oriented course in higher education will allow me to deepen my understanding of the subject and expand my skill set. Through this course, I hope to gain a more profound understanding of advanced software engineering concepts, such as machine learning and artificial intelligence.

Academic Background

My academic background has been shaped by a deep-seated passion for mathematics and physical sciences, and a keen inclination towards problem-solving. My strong quantitative and analytical skills have been my greatest assets, and have fueled my interest in these subjects. From a young age, I have been driven by an innate curiosity to uncover the secrets of the natural world and to understand the underlying principles that govern it. This curiosity led me to excel in my studies throughout my school years, earning me an excellent academic record.

With the goal of being among the forefront of knowledge in the field of science and technology, I pursued undergraduate studies **Computer Science at the University of Peshawar Agriculture**, one of the premier educational institutions in Pakistan. During these four years, I had the opportunity to study subjects such as **artificial intelligence, data structures, algorithms, information security, operating systems, and programming languages like Python and Android**. The excellent research facilities and disciplined course schedules allowed me to develop my skills "hands-on" in the laboratory and gain an in-depth practical knowledge of my subjects.

In addition to my academic pursuits, I have also represented my university in various events and gained valuable industry experience through internships and part-time work as an Android developer.

Research Background

Over the course of the past seven years, I have gained extensive experience in developing various software technologies and tools, and have had the opportunity to work on a variety of research-based projects such as **Operator Tower Tracking App Using Scene Form AR-Core, Attendance management system using machine learning**, and several others. My passion for research has grown exponentially during these years and I am eager to delve deeper into the subject by exploring more advanced research tactics.

During my undergraduate studies, I further delved into the field of computer science. My final year project, "**Drowsiness Detection System**" was an ambitious endeavor that required me to implement machine learning in an android application. This project was done under the guidance of Dr. Asfandyar, a well-reputed professor and software development expert. It was an incredibly valuable experience that allowed me to hone my time management and problem-solving skills while also sparking my research capabilities and the project was awarded as best project of the year.

I have a deep passion for continuing my education in a healthy and competitive environment. I believe that studying at your esteemed institution on scholarship will allow me to further develop my potential as a researcher and software engineer, and I am eager to apply for this opportunity to make my dream a reality.

REASONS FOR APPLYING TO MASTERS PROGRAMME:

My strong desire for academic excellence and professional competence has led me to apply for a Master's program at your esteemed university. What particularly draws me to your institution are the research topics offered, as they align perfectly with my interests and career goals. I am confident that your university's long-standing reputation for academic excellence, the expertise of the teaching faculty, and the ambitious goals of the institution will provide me with the ideal environment to thrive in my field.

Moreover, I am acutely aware of Japan's pivotal role in the field of technology, where it has been a leader for decades. As such, I believe that studying in Japan will offer me a valuable opportunity to learn from the best minds in the field and contribute to cutting-edge research.

I am excited to be part of this master's programme and believe that this scholarship will give me a unique opportunity to make a significant impact in my field. With my determination to be remembered for my innovations, I am confident that studying at your university will equip me with the necessary tools, resources, and support to achieve my goals. In particular, I look forward to collaborating with the experienced faculty and fellow students, leveraging their expertise and insights to create innovative solutions to complex problems.

Ultimately, my aspiration is to make a valuable contribution to the field of technology, and I believe that your university will be the ideal platform to help me realize this goal. I am grateful for your consideration of my application and look forward to the opportunity to be a part of your esteemed academic community.

PURPOSE OF CONDUCTING RESEARCH

My purpose for conducting research on explainable artificial intelligence (XAI) is to gain the necessary skills and knowledge to contribute to the development of transparent and interpretable AI systems that can be applied in critical fields such as healthcare and finance. As an aspiring scholar, I recognize the importance of ensuring that AI systems can explain their decision-making processes in a transparent manner, as it can have a significant impact on the well-being of individuals and society at large.

I aim to leverage my academic background in computer science and my passion for problem-solving to develop algorithms and methods that enable humans to understand and interpret the output of AI systems. By pursuing a master's degree in XAI at your esteemed university, I believe I can gain exposure to cutting-edge research and innovative approaches that can help me achieve this goal.

I am particularly drawn to the research topics offered by your university, as they align with my interests and career goals. I am confident that the expertise of the teaching faculty, the long-standing reputation of academic excellence, and the ambitious goals of your institution will provide me with the ideal environment to thrive in my field.

Moreover, I believe that studying at your university will give me a unique opportunity to learn from the best minds in the field and to contribute to the cutting-edge research being done. I am eager to be a part of your institution and I am confident that this scholarship will give me the tools, resources, and support I need to achieve my goal of contributing to the development of transparent and interpretable AI systems that can be applied in critical fields.

In conclusion, my purpose for pursuing research on XAI is to gain the skills and knowledge necessary to develop transparent and interpretable AI systems that can be applied in critical fields such as healthcare and finance. I believe that pursuing a master's degree in XAI at your esteemed university will enable me to achieve this goal and make a significant impact in my field.