# Statement of Purpose

My name is **Bilal Rafique**, and I am from Gujranwala, Pakistan. I hold a **Bachelor's degree in Information Technology** from University of the Punjab, Lahore, Pakistan. My academic journey in Information Technology has been driven by a deep curiosity to understand matter at its most fundamental level and to apply this knowledge in solving real world problems. My University life was a balance of academic rigor and active extracurricular involvement.

## Introduction of My Background

I come from a simple and hardworking family. Being the eldest son, I've always felt a strong sense of responsibility toward my loved ones. After completing my under-graduate studies, life became more challenging, but I didn't let that stop me. To support myself and continue my education, I started working as **Secondary School Educator**, School Education Department, Government of Punjab, Pakistan. This experience helped me become more independent, taught me how to manage my time, and made me stronger as a person.

## Academic Background and Research Motivation

I completed my Bachelor of Science in Information Technology from the University of the Punjab, Pakistan, with a **CGPA of 3.37 out of 4**. Throughout my undergraduate studies and was proud be one of the top students in my class. During my studies, I developed a strong interest in understanding how software systems can be designed to intelligently process and learn from data. Courses related to programming, algorithms, databases, and system design gradually directed my attention toward data-driven and intelligent computing systems.

During my studies, I realized that modern software engineering increasingly relies on artificial intelligence, machine learning, big data and advanced algorithms. This realization motivated me to pursue a Master's degree that would allow me to deepen my theoretical understanding while developing strong research and practical skills in these areas.

Alongside my studies, I was also involved in different extra curricular activities that helped me grow as a leader and organizer. As a member and later General Secretary of the Latest Trends in Technology Society, I helped plan and take part in workshops, poster competitions, and guest lectures. These experiences not only increased my knowledge but also kept me connected to new Technological ideas and developments.

## Reasons for Choosing University of Genova and the Program

I chose the Master's program in Computer Sciences (Data Science and Artificial Intelligence) at the University of Genova of Italy because of its strong international reputation for high-quality research and innovation in computer science and engineering. The university's research-oriented environment, combined with its emphasis on advanced computing technologies, makes it an ideal place to pursue graduate-level research.

University of Genova's leadership in Machine Learning, artificial intelligence, big data science, and intelligent systems further influenced my decision. The curriculum and research culture at University of Genova align closely with my academic interests and provide an excellent platform to explore advanced topics under the guidance of experienced faculty members.

## Research Interests and Study Objectives

My main research interests include Big Data Science, Algorithms, Artificial Intelligence, Machine Learning, Deep Learning, and Natural Language Processing. I am particularly interested in how machine learning and deep learning models can be integrated into software systems to analyze large-scale data and solve real-world problems efficiently.

Through this Master's program, my objective is to build a strong foundation in advanced software engineering concepts while actively engaging in research activities. I aim to develop skills in designing intelligent algorithms, implementing data-driven solutions, and conducting independent research that contributes to the academic and practical advancement of the field.

## Study and Research Plan

In the initial stage of my studies, I plan to focus on coursework related to Data science, advanced software engineering, algorithms, machine learning, and artificial intelligence. Alongside coursework, I intend to actively participate in seminars, lab work, and research discussions to strengthen my analytical and research skills.

In the later stage, I aim to work closely with a faculty supervisor on a research topic related to machine learning or data science applications in software systems. My goal is to conduct systematic research, experiment with models and algorithms, and produce a well-structured master's thesis that reflects both theoretical understanding and practical relevance.

## Future Plans and Contribution to My Country

After completing my Master's degree, I plan to return to Pakistan and contribute to the development of the country's growing technology sector. There is a strong demand for professionals with advanced expertise in Machine Learning, artificial intelligence and data science. I intend to apply my knowledge in industry or research institutions and contribute to innovation, skills development, and knowledge transfer.

In the long term, I also aspire to engage in teaching or training activities to help prepare future students and professionals in advanced computing fields.

## Conclusion

I am confident that the academic training and research experience gained through this program will enable me to grow as a researcher and make meaningful contributions to technological development in my home country. Given my academic preparation, applied projects experience, and commitment to using technology for social impact, I am well prepared to contribute meaningfully to University of Genova Master's degree course in Computer Sciences (Data Science and Artificial Intelligence). I am eager to grow within Genova University's collaborative environment and to contribute to technology-driven educational innovation.