

# STATEMENT OF PURPOSE

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In an age where technology is rapidly transforming communication, I am captivated by the question: Can machines truly understand the nuances of human language? My passion for computational linguistics was sparked by reading the groundbreaking paper "Attention is All You Need." This curiosity has fueled my academic and professional journey, shaping my path from an eager student to my current role as the Head of Dekateam, where I integrate advanced AI technologies into web development. Through my experiences, I have become deeply committed to exploring and advancing the capabilities of machines in comprehending and generating human language, driving me to pursue a Ph.D. in computational linguistics.

## Research Experience

**M.A. Program at the University of Guilan** During my M.A. program at the University of Guilan, I focused on applying computational methods to linguistic research. My thesis, "A Corpus Linguistic Approach to the Study of the Voices in the Text in Light of Laclau and Mouffe's Discourse Theory," supervised by Dr. Jaleh Hassaskhah, explored innovative ways to analyze discourse using corpus linguistic techniques, network theory, and natural language processing techniques. This research introduced me to the dynamic interplay between computational analysis and theoretical linguistics, paving the way for my future interests in natural language processing. My work was published in the Journal of Computer-Assisted Linguistic Research, showcasing my ability to conduct and present high-quality research.

**Enhancing English Teaching Methodologies using Computational Methods** In addition to my thesis, I undertook significant projects aimed at enhancing English teaching methodologies for specific academic purposes. One project examined Iranian architecture students' perspectives on alternative assessment methods in English for Specific Purposes (ESP) classes, while another involved designing an ESP curriculum tailored for architecture students at Guilan University. Both projects emphasized the practical application of linguistic theories and computational tools to improve educational outcomes.

**Recognition and Contribution** These experiences not only solidified my interest in computational linguistics but also underscored the transformative potential of integrating technology with language studies. The findings from my research have been recognized in the Journal of Computer-assisted Linguistic Research, reflecting my dedication to advancing the field through rigorous academic inquiry and practical application.

## Professional Experience and Technical Skills

Parallel to my academic pursuits, I have accumulated significant professional experience in web development and data analysis.

**Project Management Experience** As the Head of Dekateam in Mashhad, Iran, I spearheaded the integration of AI technologies into web development projects. This role enhanced my strategic thinking and project management skills, essential for conducting complex research in computational linguistics.

**Web Developer and Data Analyst Position** My tenure as a Web Developer and Data Analyst at Golden Nutrition LLC, based in California, allowed me to apply my technical skills in real-world scenarios, developing web applications and performing comprehensive data analysis. My proficiency in programming languages such as Python, JavaScript, and PHP, along with my expertise in Python libraries like Pandas, NumPy, PyTorch, and NLTK, equips me with the necessary tools to undertake advanced research in natural language processing and machine learning.

## Research Interests and Future Goals

My primary research interests lie in the application of machine learning and deep learning techniques to natural language processing. I am particularly intrigued by how computational models can decipher semantic content and discourse structures. The integration between network theory and computational linguistics can present a promising approach for exploring cultural and contextual subtleties that humans effortlessly understand.

Pursuing a Ph.D. in Computational Linguistics will enable me to further investigate these areas, contributing to the development of more sophisticated language models. My goal is to create algorithms that can understand and generate human language with greater accuracy and nuance, bridging the gap between human communication and machine understanding.

## Concluding Remarks

I am excited about the opportunity to join a team in Ph.D. program, where I can collaborate with leading experts and contribute to cutting-edge research. My diverse experiences and strong technical background have prepared me well for the challenges of a Ph.D. program. I am eager to bring my passion for computational linguistics to your esteemed institution and work towards bridging the gap between human communication and machine understanding.