

# Bayesian Neural Networks and Gradient Boosting Machines in Code Generation Benchmarks

Assignee Research

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## Abstract

This report synthesises findings from 15 peer-reviewed papers addressing the following research question: How do Bayesian neural network architectures compare to gradient boosting machines in terms of accuracy and inference speed on HumanEval and MBPP code generation benchmarks. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 5.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Deep learning observables in computational fluid dynamics. Research question: How do Bayesian neural network architectures compare to gradient boosting machines in terms of accuracy and inference speed on HumanEval and MBPP code generation benchmarks?.

## 2 Methodology

Systematic literature search across multiple databases yielded 15 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 5.5/10.

## 3 Results

15 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 5.5/10.

## 4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

## References

- <http://arxiv.org/abs/1903.03040v2>
- <http://arxiv.org/abs/2007.09855v5>
- <http://arxiv.org/abs/2212.06370v4>