

ABHINAV KUMAR SINGH

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Education

Bharati Vidyapeeth's College of Engineering, New Delhi (Under GGSIPU) <ul style="list-style-type: none">Branch: Information Technology CGPA: 8.33	2022 - 2026 (expected)
Universal Public School, India <ul style="list-style-type: none">AISSE (Class XII), Aggregate: 90%	2021 - 2022
Universal Public School, India <ul style="list-style-type: none">AISSE (Class X), Aggregate: 86.5%	2019 - 2020

Skills

Programming Languages: C, C++, Python, Java, Dart
Machine Learning: Scikit-learn, TensorFlow, Pytorch, Numpy, Pandas, Matplotlib, Seaborn, Flask, HuggingFace
Database Management: Google Firebase, PostgreSQL, MySQL, MongoDB
Version Control: Git, Github
Developer Tools: GitHub Codespaces, Copilot, Docker
Cloud Platforms: Microsoft Azure (Azure Static Web Apps), AWS

Projects

1. NeuNet - Neural Network from Scratch Python, NumPy, Matplotlib, Plotly <i>Developed a Neural Network from scratch for multi-class classification with custom data.</i> <ul style="list-style-type: none">Implemented a multi-layer neural network with gradient descent achieving 92% accuracy on synthetic data.Defined modular components, including ReLU, Softmax, and Cross-Entropy, to support multi-class classification.Created post-training visualizations of model performance and architecture with Matplotlib and Plotly for insights.	November 2024 Github
2. Brieflet - Research Paper Summarization Python, Flask, PyTorch, Transformers, NLTK <i>Built a tool that automates domain classification & summarization of research papers using machine learning.</i> <ul style="list-style-type: none">Composed a tool leveraging Facebook's BART CNN & PyPDF2 to automate summarization with 93% accuracy.Extracts key sections such as the abstract and conclusion to provide a structured overview of the paper's content.User-friendly API for integration with custom workflows, enabling seamless use of features in other applications.	December 2024 Github
3. AgenticBOB - Content Research and Writing Assistant Python, Streamlit, CrewAI <i>A powerful assistant leveraging multiple AI agents to generate high-quality content on any topic.</i> <ul style="list-style-type: none">Seamlessly integrates with the SerperDev API for thorough web research through specialized AI agents.Provides customizable parameters and export options in Markdown or JSON formats.	January 2025 Github

Experience

Microsoft Learn Student Ambassador Beta Milestone <ul style="list-style-type: none">Represent Microsoft within the student community.Led educational sessions on Microsoft technologies, technical content, and community building with student organizations.Acquired expertise in essential data analysis concepts.	September 2023 - Present
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Achievements

- Finalist in Smart India Hackathon 2024**, organized by the Ministry of Education, chosen from over **3 lakh participants**.
- 2nd Runner-up in Speed Designathon**, competing against **13+** colleges, hosted by **Designhub.IITD** at **IIT Delhi**.
- Finalist in the Brandskulpt Design Challenge**, conducted by **IIT Delhi**.
- Awarded Bertelsmann Sponsorship** for enrollment in the **Next Generation Tech Booster Program**,

Positions of Responsibility

Computer Society - Chairperson IEEE BVCOE <ul style="list-style-type: none">Led WIEHack 5.0, a highly successful hackathon attracting over 1800 students from India and 31+ countries.Serve as the design head for numerous events, overseeing and executing design tasks and building a website.	August 2024 - Present
Head Of Production TEDx BVCOE <ul style="list-style-type: none">Oversee the planning and execution of all production activities for TEDx events on campus.	July 2024 - Present