

# NIKHIL BANSAL

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## EDUCATION

|  |           |
|--|-----------|
| <b>Chandigarh University, Punjab</b>                 | 2021-2025 |
| Bachelor of Engineering CSE (Hons.) AIML - 8.05 CGPA |           |
| <b>MGN Public School, Kapurtala</b>                  | 2020-2021 |
| Intermediate (CBSE Board) - 83.4%                    |           |
| <b>MGN Public School, Kapurtala</b>                  | 2018-2019 |
| Matriculation (CBSE Board) - 88.6%                   |           |

## WORK EXPERIENCE

|  |                                     |
|--|-------------------------------------|
| <b>Nokia (Automation Intern)</b>   | August 2024 – May 2025   Noida      |
| <ul style="list-style-type: none"><li>Contributed to the successful completion of <b>44/60 CMG delivery</b> for the <i>Bharti Airtel Project</i> using PAC Tools, earning <b>recognition and reward</b> for seamless dedication and flawless execution.</li><li>Designed a secure multi-user management system on GitLab, ensuring code privacy, seamless collaboration, and optimized deployment through integrated <b>CI/CD workflows</b>.</li><li>Developed <b>CMG automation</b>, significantly reducing manual effort—tasks that previously took <b>several days for 50+ sites</b> can now be completed in just a few hours.</li><li>Implemented <b>CMM automation</b>, optimizing workflows to enhance efficiency—what earlier required many days for <b>one site</b> can now be done for <b>24 sites in approximately 2 hours</b>.</li><li><b>Technologies Used:</b> Python, Git, Gitlab, CI/CD, Dockers, Kubernetes, Putty, Wireshark.</li></ul> |                                     |
| <b>Avkalan (AI Intern)</b>   | February 2024 - April 2024   Remote |
| <ul style="list-style-type: none"><li>Gained in-depth knowledge of <b>Generative AI</b> concepts and techniques, focusing on <b>Retrieval-Augmented Generation (RAG)</b> methodologies, achieving a <b>30% improvement in response accuracy</b>.</li><li>Designed and developed a <b>Generative AI-based chatbot</b> utilizing RAG, processing over <b>10,000+ queries</b> and improving response relevance by <b>40%</b> through efficient retrieval and generation mechanisms.</li><li>Conducted research on <b>AI tools and frameworks</b>, optimizing the performance of the chatbot, leading to a <b>50% reduction in latency</b> while handling real-time user queries.</li><li>Strengthened skills in <b>natural language processing (NLP)</b> and <b>AI model development</b>, contributing to innovative problem solving in conversational AI, successfully increasing user engagement by <b>60%</b>.</li></ul>                                 |                                     |

## PROJECTS

|  |   |
|--|---|
| <b>MCQ Generator</b>   |  |
| <ul style="list-style-type: none"><li>Developed a tool that generates <b>multiple-choice questions (MCQs)</b> from <b>PDF</b> or <b>Word documents</b>, allowing users to set difficulty levels.</li><li>Integrated <b>Gemini API</b> as the <b>LLM backend</b> to process prompts and extract questions relevant to the document content.</li><li>Utilized <b>LangChain</b> to optimize prompt engineering and manage interactions with the LLM, ensuring accurate and contextually appropriate question generation.</li><li>Enhanced usability by creating an intuitive interface for users to upload files and configure difficulty settings.</li></ul> |   |
| <b>Movies Recommender System</b>   |  |
| <ul style="list-style-type: none"><li>Built a <b>Movie Recommender System</b> using content-based filtering techniques.</li><li>Employed <b>Bag of Words</b> for feature vectorization of movie metadata.</li><li>Utilized <b>NLTK</b> to preprocess text data by removing stopwords and normalizing content.</li><li>Calculated <b>Cosine Similarity</b> between vectors to generate accurate movie recommendations.</li></ul>  |   |

## SKILLS

|                              |   |
|------------------------------|---|
| <b>Programming Languages</b> | Python, Java, C++, C, Java Script   |
| <b>Technologies</b>          | Machine Learning, Deep Learning, Natural Language Processing, LLM, GenerativeAI, Hugging Face, Langchain, Flask, MySQL, MongoDB, Streamlit, FastAPI |
| <b>Developer Tools</b>       | Git, GitHub, Docker, CI/CD, Linux, AWS  |

## CERTIFICATIONS

|  |                 |            |
|--|-----------------|------------|
| <b>CNS L3 AI/ML and GenAI R24 Certification Exam</b> | <i>Nokia</i>    | March 2025 |
| <b>Git and GitHub: Working with Git Repositories</b> | <i>Nokia</i>    | Aug 2024   |
| <b>Generative AI with Large Language Models</b>      | <i>Coursera</i> | Feb 2024   |