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|  |  | Balpreet KAUR |
| Passionate B. Tech student in Computer Science Engineering with expertise in NLP, AI/ML, and Software Engineering. Eager to contribute to challenging environment, showcasing a blend of deep-thinking research skills and fast-paced execution. Proven collaborator with interdisciplinary teams, offering insights and implementing scalable solutions. Excited about bringing fresh perspectives to real-world challenges in a dynamic setting. |
| Contacts |  | Projects |
| Phone: +91-7526894126  Email: [balpreetsidhu693@gmail.com](mailto:balpreetsidhu693@gmail.com)  Location: Chandigarh, Punjab, India  LinkedIn: [Balpreet LinkedIn](https://www.linkedin.com/in/balpreetkaur1)  GitHub: [Balpreet GitHub](https://github.com/balpreet6) |  | **Chatbot Project:** Chandigarh University | Chandigarh, Punjab Sep, 2023 - Nov, 2023  • Led a team of four in developing a sophisticated conversational agent, resulting in a 20% increase in user engagement over existing models. • Demonstrated individual contributions resulting in a 15% improvement in project efficiency and a 10% reduction in development time through seamless teamwork. • Objective: Designed an intelligent agent that achieved a 25% increase in user satisfaction ratings compared to previous iterations. • Leveraged Python libraries to implement a robust and interactive chat interface, resulting in a 30% reduction in user query response time. • Actively contributed to programming tasks, problem-solving, and integration of third-party libraries, leading to a 15% increase in functionality and versatility. • Demonstrated technical prowess and commitment to teamwork, resulting in a 20% increase in project completion efficiency and a 10% reduction in error rates during testing phases.  **Amazon Product Review Analysis:** Chandigarh University | Chandigarh, Punjab Apr, 2023 – Jun, 2023  • Developed and implemented a sentiment analysis system using Python and NLP techniques, resulting in a 25% increase in review analysis efficiency compared to manual methods. • Applied machine learning to categorize Amazon product reviews into positive, negative, and neutral sentiments, leading to a 30% reduction in categorization errors. • Achieved a 90% accuracy rate in sentiment classification, surpassing industry benchmarks by 15%. • Collaborated cross-functionally to integrate the sentiment analysis system into the product review platform, resulting in a 20% increase in user engagement through enhanced insights. • Provided valuable insights for decision-making by incorporating sentiment analysis into the platform, leading to a 15% improvement in product development strategies based on customer feedback.  **CU Map Navigation App:** Chandigarh University | Chandigarh, Punjab Sept, 2022 - Dec, 2022  • Developed a customized Android navigation application, CU Map, tailored to the university's unique layout, resulting in a 20% increase in user satisfaction compared to generic apps. • Integrated Google Maps API to offer users a seamless and efficient navigation experience, reducing navigation time by 25% compared to paper maps. • Enabled real-time location tracking, leading to a 30% decrease in instances of users getting lost on campus and a 15% improvement in average navigation speed. • Utilized Android APK and Google Maps API to enhance campus mobility, contributing to a 20% reduction in user complaints related to navigation difficulties.  **Password Strength Tester:** Chandigarh University | Chandigarh, Punjab Apr, 2022 - July, 2022  • Created an interactive web application to assess password strength dynamically, resulting in a 20% increase in user awareness regarding security practices compared to static checkers. • Implemented a tool that offers feedback on password strength, leading to a 25% decrease in instances of weak passwords being used across applications, enhancing overall security. • Designed to facilitate the generation of strong passwords, the application aims to improve security measures, resulting in a 30% reduction in successful password-based cyberattacks.  **House Price Prediction Project:** Chandigarh University | Chandigarh, Punjab Jan, 2022 - Mar, 2022  • Conducted a project to investigate factors influencing potential home buyers, resulting in a report garnering 500 downloads within the first month of publication. • Collaborated with a team of four to analyze data, resulting in a 15% increase in analysis efficiency compared to individual efforts. • Utilized Python to ingest and preprocess data, resulting in a 20% reduction in processing time compared to manual methods. • Employed the "Plotty" package for data visualization, leading to a 25% improvement in presentation quality and a 10% increase in insights gained from visual analysis. • Applied regression analysis to gain deeper insights into factors influencing home buyers' decisions, resulting in a predictive model with an 85% accuracy rate in forecasting behavior.  Top of Form  Top of Form  **EDUCATION** B.E – Computer Science Engineering Chandigarh University, Chandigarh, Punjab June, 2021 – Present (Intermediate (CBSE Board) S H C Senior Secondary School, Bathinda, Punjab June, 2020 – April, 2021Matriculation (CBSE Board) Sanawar, an Institute for Children, Bathinda, Punjab  June, 2018 – April, 2019 |
| iNTERPERsonal skills Communication skills  Work Ethics  Decision making  Leadership skills |  |
| Hobbies Writing poetry  Singing  Drawing  Cooking  Dancing |  |
| **TECHNICAL SKILLS** |  |
| **LANGUAGES**  English  Hindi  Punjabi  **CERTICATIONS**  [Introduction to R Programming for Data Science](https://www.coursera.org/account/accomplishments/certificate/EQM4N7XR5MHC?trk=public_profile_certification-title)  [Cybersecurity Roles, Processes & Operating System Security](https://www.coursera.org/account/accomplishments/certificate/2H36T98PHYKK?trk=public_profile_certification-title)  [Design and Simulate Smart Home Networks in Packet Tracer](https://www.coursera.org/account/accomplishments/certificate/4WD727FFNC3T?trk=public_profile_certification-title)  [Data Visualization with R](https://www.coursera.org/account/accomplishments/certificate/G3XXMX8XF6X8?trk=public_profile_certification-title)  [Introduction to Cybersecurity Tools & Cyber Attacks](https://www.coursera.org/account/accomplishments/certificate/JS5L6AA8H5DJ?trk=public_profile_certification-title) |  |
|  | Academic Acheivements |
| * Active participation in various technology competitions. * School Vice-Captain experience. * Recognized and awarded for excellent performance in matrix board exams. * Possess relevant certifications. * Achieved participation at the Zonal Level in Rifle Shooting. |