

# Jaspreet Singh Sodhi

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## EDUCATION

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<b>Bennett University</b> <i>Bachelor of Technology in Computer Science</i>	Greater Noida, Uttar Pradesh <i>Oct 2020 – Present</i>
<b>Bal Vidya Mandir</b> <i>Class XII</i>	96.4%
<b>Bal Vidya Mandir</b> <i>Class X</i>	95.4%

## EXPERIENCE

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<b>Deep Learning Research Intern</b> <i>Manupatra</i>	Dec 2022 - Present <i>Greater Noida, India</i>
<ul style="list-style-type: none"><li>Worked under the mentorship of <b>Dr. Arpan Mandal</b>, Senior Scientist from the <b>University of South Hampton</b>. Chosen among over <b>100 students</b> for a summer internship role to support a team of 10 professionals in a fast-paced environment.</li><li>Modified opensource libraries of ICLR Blackstone project and OpenNyai to work with Indian Legal Context, helped achieve 93% accuracy in <b>named entity recognition (NER)</b>, legal text classification and <b>sentence segmentation using Spacy</b>.</li><li>Implemented new proprietary python-based libraries using <b>Pytorch, Keras, Scikit-learn</b> to extract features and process documents in parallel, reducing processing time by 45%.</li><li><b>Built new Transformer models</b> from scratch to extract more value from the case data, using 6 Attention blocks, which helped us achieve 25% more accuracy compared to the RNN and Bi-LSTM model in place</li></ul>	
<b>Flutter Developer</b> <i>TechDockLabs</i>	July 2022 – Nov 2022 <i>Lucknow, Uttarpradesh</i>
<ul style="list-style-type: none"><li>Created 3 client-facing applications using Flutter framework; achieved pixel-perfect accuracy in UI/UX designs, resulting in increased user satisfaction by 20%</li><li>Developed the Agora Sdk-based live video calling feature in a dating application, which enabled seamless communication between users and met the client's business needs.</li><li>Followed <b>getx state management &amp; MVC architecture</b> to develop a scalable codebase that separated business logic and user interface, resulting in improved system performance and reduced maintenance costs.</li><li>Utilized <b>agile methodologies</b> to successfully lead daily scrum meetings with cross-functional teams; improved development process by 25% and reduced project turnaround time by 20%.</li></ul>	
<b>Web Developer</b> <i>Basic</i>	May. 2021 – July 2021 <i>Lucknow, UttarPradesh</i>
<ul style="list-style-type: none"><li>Developed a fully responsive website for the company utilizing <b>HTML, Tailwind CSS and JavaScript</b>, resulting in improved user experience and augmented customer engagement.</li><li>Successfully implemented <b>Tidio chatbot &amp; WhatsApp</b> chat services to enhance customer experience, resulting in a 25% increase in customer satisfaction..</li></ul>	
<b>Patent Holder</b> <i>Innoventory Solutions</i>	July 2022 – Dec 2022 <i>Bengaluru, Karnatka</i>
<ul style="list-style-type: none"><li>Conducted research and explored innovative approaches to product development under the guidance of a mentor with over 6+ years of experience at <b>Dell Technologies</b>.</li><li>Contributed to the successful completion of a <b>patent application</b> for a novel traffic light junction control system and its associated usage method.</li></ul>	

## SEMESTER PROJECTS

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### Predictify | *Python, Streamlit.io, Git*

Nov 2022 - Dec 2022

- Developed a web application using Python and **Streamlit** to predict software developers salary based on degree, years of experience, and country. Utilized machine learning algorithms and analyzed over 80,000 entries from the **Stack Overflow Developers Survey 2020** to increase accuracy of predictions by 20%.
- Designed a Machine learning model using a combination of **linear regression, random forest regressor, decision tree regressor**, & used grid search cross-validation to identify the most accurate predictive model improving the accuracy of results by 80%.
- Created an **Explore and Predict section** in a web application to **provide visual insights** into salary trends by country and experience level, resulting in a 20% increase in user engagement.
- Live demo for the web application - [predictify](#)

### Your - Cart | *React Js, Firebase, Stripe, Git*

Oct 2021 - Nov 2021

- Developed an Ecommerce Store using **React JS**, with a user interface inspired by Amazon, resulting in a 20% increase in user engagement.
- Used **React context API** and **React hooks** to add features like add items to basket and redirect user to the checkout page, resulting in a 25% increase in customer experience and conversions.
- Integrated **Stripe Payments** with the web application, reducing payment transaction time by 50%
- Live demo for the web application - [your-cart](#)

## INDUSTRY PROJECTS

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### Fuzion | *Flutter, Express, Python, FastAI*

Nov 2021 – Dec 2022

- Developed a **minimalist Chat GPT** model incorporating **Parallel Pipeline and Process-based Threading techniques**, which achieved an accuracy of over 98% in **Zero-Shot Classification tasks**
- Evolved a Smart Assistant to enable users to interact with advanced stable diffusion models like **GPT, Dalle-mini** and more, resulting in a 90% improvement in accuracy and a 30% decrease in response time.
- Won the Industry Project Showcase at Bennett University, **outperforming 50+ projects** judged by **20+ industry experts** and professionals.
- Presented the project to a panel of jury members from top-tier companies including **KPMG, Accenture, Deloitte, HCL, & Ernst Young**, resulting in positive feedback and strong interest from the panel.

### E-Stud | *Flutter, PostgreSQL, Express, Git, Dart*

June 2022

- Won **Compathon 2022** at Bennett University, ranked first among 100 teams in a pool of 500+ participants.
- Built an automated system to streamline facilities management operations across the University campus, including laundry, room cleaning, salons, and cafeterias; improved **staff productivity by 25%**.
- Collaborated with a **5-member team** to develop and launch a customer-facing web application, leading front-end development and ensuring quality assurance through testing while using **Agile methodology**.
- Followed **Getx state management** to separate business logic from view and enhance modularity, resulting in a more efficient **MVC architecture**.
- **Containerised** the backend using Docker, and deployed it on AWS Services, increasing the **speed and user accessibility by 40%**

## TECHNICAL SKILLS

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**Languages:** Java, Dart, Python, C/C++, SQL, JavaScript, HTML/CSS

**Frameworks:** React, Flutter, Tailwind CSS, Material UI

**Developer Tools:** Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Core Subjects:** DBMS, Operating Systems, Computer Networks, **OOPS**

**Libraries:** Pandas, NumPy, Matplotlib, OpenCv, sklearn, spacy, getx,

## ACHIEVEMENTS

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- \* Won **Compathon 2022** at Bennett University, ranked first among 100 teams in a pool of 500+ participants.
- \* Solved **500+ problems** On Data Structures Algorithms using **Java** programming language on **Leetcode**.
- \* Achieved the **24th rank** among 1,000+ registered candidates on **Geeksforgeeks**.
- \* Finishing within the **top 20 teams** of a total of 500 participants at Techathon 3.0 organised by **iNeuron.ai**.
- \* Won the Industry Project Showcase at Bennett University, **outperforming 50+ projects** judged by **20+ industry experts** and professionals.
- \* Placed in the **top 3** of BU hacks at Bennett University, competing against **100+ teams**.
- \* **1000+** contributions on Github with a streak **160+ days**.
- \* Crafted high-quality content for @talk.wid.tech Instagram account, generating **150+ posts** and **10+ paid** collaborations with leading content creators out there.