Riddhima Bansal

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Summary

Final-year Computer Science Engineering student skilled expertise in Artificial Intelligence, Data Science, Machine Learning, and Deep Learning, focused on leveraging AI to drive business growth and solve complex problems.

Education

- **B.Tech in Computer Science and Engineering (hons. in Data Science and Analytics)**   **-87.7%**
  Amity university, Noida   - Sept 2021- June 2025
- **Senior Secondary School , Class 12**   **-90.2%**
  Delhi Public School Ghaziabad   -Sept 2018 – May 2020
- **Secondary School , Class 10**   **-94.4%**
  Holy Child School   -April 2006 – June 2018

Technical Skills

- **Programming Languages-** Python, R, Java, C, C++
- **Web Development-** HTML, CSS, JavaScript
- **Database Management-** SQL, NoSQL, My SQL, Postgre SQL, MongoDB, Data Warehousing, Data Governance, Data Pipelines
- **Technologies:** Machine Learning, Artificial Intelligence, Generative AI, Natural Language Processing, Computer Vision, Prompt Engineering, Large Language Models, Data Analysis, Data Mining, Predictive Modelling, Deep Learning, ETL – ELT, Hadoop, Kafka, Orchestration, Serverless Architecture, Data Modelling, Data Visualization, SAS, business Intelligence
- **Tools & Frameworks-** Spark, Hadoop, Tableau, Power BI, Advanced Excel, MATLAB, Cloud Services-AWS, Azure, Google Cloud Computing, Advanced Statistics, Looker, Django

Soft Skills- Critical Thinking, Presentation Skills, Efficient Communication, Advanced Microsoft Excel, Problem Solving, Time Management, Team Collaboration, Adaptability, Leadership, Decision Making, Observation, Public Speaking

Experience

- **AIML Intern - Aether Tech**   **-August 2024-November 2024**
  - AI-Driven Content and Image Creation
  - Image Manipulation and Customization-Utilizing PIL Library
  - API Integration and Automation
- **Data Science – BCG X - Forage**   **-September 2024**
  - Utilized statistical analysis and Hypothesis framing and machine learning to generate insights and develop models.
  - Created data-driven solutions and visualizations for real-world problems through Feature Engineering and Modelling.
  - Demonstrated problem-solving and data interpretation abilities to provide strategic recommendations.
- **Data Analytics – Quantium - Forage**   **-August 2024**
  - Analyse transaction and customer data to identify trends and inconsistencies.
  - Develop metrics and examine sales drivers to gain insights into overall sales performance.
  - Create visualizations and prepare findings to formulate a clear recommendation for the client's strategy
- **Research Data Science Intern -OHSL - Open Health Systems Laboratory**   **-May-July 2024**
  - Integration of Electronic microscope to Telesynergy Platform
  - Developing API solutions for microscope control, image acquisition, and processing.
  - Implementing robust database solutions for data management in electron microscopy applications.
- **Salesforce Developer -SmartInternz**   **- May-June 2024**
  - Apex, Testing & Debugging, and Lightning Web Components & API.
  - Apex Specialist, Process Automation Specialist, and Developer Super Set, hands-on expertise.

Projects - Link

- **Deep Brain Stimulation Localization- 1D Convolutional Neural Network-** Designed a deep learning model to accurately localize electrodes for deep brain stimulation (DBS) in patients with Parkinson's disease. This project aims to pinpoint the precise location of the STN by analysing microelectrode recordings from various depths near the STN region.
- **Intelligent FAQ Generation System-** Developed a hybrid system combining traditional NLP techniques with GPT to automatically generate coherent and contextually relevant FAQs from customer support tickets and product documentation.
- **Reinforcement Learning-Snake Game-** Deep Q-Network (DQN) algorithm is employed to train an artificial intelligence agent in playing the classic snake game. The agent learns to navigate the game environment, optimize its strategy, and achieve high scores by avoiding obstacles and consuming food.
- **Skin Cancer Detection –** CNN-based binary classifier that identifies malignant skin lesions from close-up 3D total body photos, using pAUC above 80% TPR as the primary evaluation metric to ensure high sensitivity in early skin cancer detection.

- **Customer-Churn-Prediction-Model**-Developed machine learning and Deep learning models to predict customer churn, the phenomenon where customers stop using a company's products or services over a given period, to analyse customer behaviour and transaction data, identifying key churn indicators.
- **Supply-Chain-Optimization**- This project improves supply chain efficiency by using advanced algorithms and data analytics to optimize logistics, reduce costs, and enhance operational performance through analysis of inventory, demand forecasts, and supplier metrics.
- **Real-Time-Climate-Data-Monitoring-System**-This project involves developing a system to monitor and analyze climate data in real-time. It collects and processes environmental data such as temperature, humidity, and air quality from various sensors, providing insights and alerts on changing climate conditions. The system aims to support climate research, enhance predictive capabilities, and contribute to informed decision-making regarding environmental policies and actions.

Certificates - **[Link]**

- Microsoft Power BI Data Analyst Professional Certificate - Coursera
- Microsoft Azure Developer Associate Professional Certificate- Coursera
- Microsoft Azure Data Scientist Associate Professional Certificate-Coursera
- MongoDB Developer's Toolkit: CRUD Mastery-Geeks for Geeks
- Mastering Azure Fundamentals-Udemy
- 100 Days of Code: The Complete Python Pro Bootcamp-Udemy
- Tableau - Basic to Advanced-Udemy
- BI and Analytics with Looker-Google
- AWS Beginners Course -Edureka
- Generative AI for Developers-Google
- Google Cloud Computing Foundations Certificate-Google
- Google Cloud Data Analytics Certificate – Google
- Database Engineer-Google
- Google Data Analytics Professional Certificate + Advanced-Coursera
- IBM AI Developer Professional Certificate
- AWS Cloud Practitioner Essentials-AWS
- AWS Technical Essentials-AWS
- AWS Database Offerings-AWS
- Foundations of Prompt Engineering-AWS
- Practical Data Science with Amazon SageMaker
- Amazon Bedrock
- Building Generative AI Applications Using Amazon Bedrock
- Building Language Models on AWS
- IBM Data Science Professional Certificate
- IBM Data Engineering Professional Certificate
- IBM AI Engineering Professional Certificate

Volunteer Work Experience-

- **Team Manager-ADORE Earth**   **-December2023-March2024**

Led environmental initiatives at Adore Earth, overseeing community projects, coordinating with team members, and managing resources. Developed educational programs and built partnerships with local organizations to promote sustainability and secure project funding.