Shourav Rakshit Ivan

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3404 Exshaw Road NW, Banff Trail, Calgary, AB

Education

University of Calgary	Canada, Calgary
Computer Science	*Expected April 2025*

- · GPA: 3.432 / 4.0
- · University of Calgary Entrance Scholarship
- · Relevant Courses: Foundations of Computer Science (Python), Object-Oriented Programming (Java), Data Structures and Algorithms (Java), DBMS, Web-Based Systems, Software Project Mangement

Technical Skills

Languages: Python, Java, Javascript, C++, HTML, CSS, PostgreSQL, MySQL, R,
Frameworks: React, Bootstrap5, Express.js, Node.js, Apache Spark, Material-UI
Developer Tools: VS Code, PyCharm, Docker, Power BI, Tableau, Heroku, Microsoft Azure, Figma
Others: Linux, Computer Hardware, Microsoft Office, Microsoft Excel, Microsoft PowerPoint

Projects

SmartTalk A MERN Stack Chatbot Service
- Engineered an AI chatbot service using the MERN stack, featuring user authentication, session management, and responsive design for cross-platform compatibility.
- Integrated OpenAI's GPT models to enable dynamic conversation handling, storing interactions within MongoDB for persistent user experiences.
- Designed and managed RESTful API endpoints with Node.js and Express, ensuring efficient data transactions and connectivity with the MongoDB database.
- Implemented security best practices, including JWT, bcrypt hashing, and HTTP-only cookies, to safeguard user data and authentication tokens.
- Applied Material-UI for the front-end to deliver a modern user interface, with React Context API for efficient state management across the application.
- Architected the application to be scalable for future enhancements such as image, audio, and video generation integrations.
- Tools/Technologies Used: Node.js, Express.js, MongoDB, React.js, Material-UI, JWT, Bcrypt,

Tokyo 2021 Olympics Data Analytics Project
- Acquired a comprehensive dataset from Kaggle concerning the Tokyo 2021 Olympics.
- Utilized Apache Spark for data preprocessing tasks, including modifying column data types to optimize for subsequent analytics.
- Leveraged Microsoft Azure, specifically Synapse Analytics, to write and execute SQL queries for data analysis.
- Conducted ETL processes to cleanse and optimize data for analysis in Power BI.
- Power BI Visualizations: Created dynamic dashboards showcasing:
  - Top 5 countries by athlete count.
  - Top 10 countries by number of coaches.
  - Gender participation by discipline.
- Tools/Technologies Used: Microsoft Azure (Synapse Analytics), SQL, Apache Spark, Power BI, Kaggle.

Atliq Company Sales Analysis (2017-2020)
- Acquired and cleaned a 4-year sales dataset for Atliq using MySQL.
- Visualized key metrics in Power BI, revealing:
  - Top 5 Products by sales.
  - Top 10 Revenue-Generating Markets.
- Insights equipped the sales team to target key markets and prioritize customer relationships.

Tools/Technologies Used: MySQL, Power BI.