Ankush Nag
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PROFESSIONAL SUMMARY

Data-driven and results-focused Computer Science undergraduate with hands-on experience in data analysis, business intelligence, and dashboard development. Skilled in extracting actionable insights from large datasets using SQL, Power BI, Python, and Excel. Demonstrated success in applying NLP, visualization, and automation to drive better business decisions. Passionate about solving real-world problems with analytics, and currently seeking data-focused roles in fast-paced, collaborative environments.

TECHNICAL SKILLS

Analytics and Visualization: Power BI, Tableau, Excel, Matplotlib
Programming: Python, C/C++, JAVA, XML, SQL, Openpyxl, Pandas, NumPy
Machine Learning/AI: Natural Language Processing (NLP), TensorFlow, Keras, BERT, Scikit-learn, Text Classification
Developer Tools: Git, Data Bricks, Google Collab, Azure and AWS, Google Cloud Platform, VS Code, Visual Studio, Eclipse

EDUCATION

MIT World Peace University   Pune, MH
Bachelor of Technology in Computer Science, AIDS   *Aug. 2021 – June 2025*

Rao Junior College of Science   Pune, MH
Class 12th, HSC   *April 2020 – April 2021*

City International School   Pune, MH
Class 10th, CBSE   *April 2018 – April 2019*

WORK EXPERIENCE

John Deere India   Pune, MH
Data Analyst Intern   *Jan. 2025 – Present*

- Designed and automated scalable data pipelines using **Python** and **SQL**, reducing data processing time by **40%** and improving data accuracy
- Created and maintained interactive Power BI **dashboards** to visualize system performance, providing actionable insights to business stakeholders
- Led the development of a machine learning-based content moderation tool, improving detection accuracy by **30%** and cutting manual review time by **40%**
- Processed and cleaned over **10M records** of **structured** and **unstructured** datasets using Python, Pandas, XML, and SQL
- Applied **NLP techniques** to extract insights from text data, enhancing trend predictions and supporting better business **decision-making**
- **Collaborated** with cross-functional teams including developers, data scientists, and business analysts to gather requirements and deliver end-to-end data solutions aligned with company objectives
- Conducted code reviews, optimized scripts, and ensured seamless integration of **data workflows**, following best practices in software engineering and data management

PROJECTS

Hate Speech Detection | *NLP, Python*   Dec 2023

- Built a BERT-based NLP **pipeline** to classify over 2M tweets, boosting model accuracy by 40% and decreasing preprocessing time by 35%
- Applied advanced text processing techniques like tokenization and stemming, enhancing **NLU capabilities**

Voice Cloning | *AI, ML, Python*   May 2024

- Engineered a **deep learning** model using custom vocoders to replicate speech from acoustic model outputs
- Increased voice recognition **accuracy** by 22% and reduced system latency by 10%

Sign Language Detector | *ML, Python* Dec 2023
- Designed and deployed a real-time sign language recognition model using TensorFlow and Keras
- Achieved **85%** prediction precision and reduced data processing time by **30%**
- Integrated **GitHub** with Visual Studio Code, improving team productivity by 25%

CERTIFICATION

Electronic Arts Software Engineering on Forage June 2025
- Proposed a new feature for the EA Sports College Football and wrote a Feature Proposal describing it to other **stakeholders**
- Designed a **UML class diagram** and implemented C++ header files with class definitions to support modular architecture
- Patched a bug in the production **codebase** and optimized game performance by using improved data structures

Walmart USA Advanced Software Engineering on Forage June 2025
- Developed a novel version of a **heap data structure** in Java for Walmart's shipping department, showcasing strong problem-solving and algorithmic skills
- Engineered a **UML class diagram** for a data processor, considering different operating modes and database connections
- Created an **Entity Relationship Diagram** to design a new database accounting for all requirements provided by Walmart's pet department

Deloitte Australia Data Analytics Job Simulation on Forage June 2025
- Completed a Deloitte job simulation involving **data analysis** and **forensic technology**
- Built a comprehensive **Tableau dashboard** and analyzed data trends to support business fraud detection
- Applied data classification techniques to derive actionable insights for **stakeholders**

Quantum Data Analytics Job Simulation on Forage June 2025
- Developed expertise in data preparation and customer **analytics**, utilizing transaction datasets to extract valuable insights and deliver data-driven commercial recommendations
- Extended analytical capabilities to identify benchmark stores for conducting uplift testing on trial store layouts, enabling evidence-based **decision-making**
- Delivered a comprehensive analytics report to support **strategic recommendations** for a retail category manager