Rashika Dabas

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ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CGPA/%
2023-2024	Applied A.I. Solutions Development	George Brown College, Toronto	3.74/4
2021-2023	M.Sc. Data Science	Chandigarh University, Punjab	8.27/10
2018-2021	B.Sc. (Hons.) Mathematics	Mata Sundri College for Women, University of Delhi	8.92/10
2018	Class XII (CBSE)	Holy Child Auxilium School, New Delhi	88.5
2016	Class X (CBSE)	Suraj Bhan D.A.V. Public School, New Delhi	10/10

PROFESSIONAL EXPERIENCE

Zykrr Technologies Pvt. Ltd. | Data Science Engineer | **Received full-time offer & good recommendations** *Dec'22 - Aug'23*

Objective	• Deliver business effective insights using **NLP, LLMs, Deep Learning, and Machine Learning techniques**
Approach	• Developed custom **Python Scripts and Test Cases** for data extraction, preprocessing, analysis and validation • Improvised models' metrics through **finetuning pre-trained models** and **feature engineering techniques** • Upgraded **predictive and text analytics** capabilities via **NLP & state-of-the-art deep learning techniques**
Result	• Communicated **actionable insights** based on thorough analysis of **customer behavior, product usage, & market trends**

Instrovate Technologies | Data Analytics Intern | **Received offer to assist Mobility and Security team** *Mar'22 - Jun'22*

Objective	• Drive the **release and pipeline** to ease **the project model workflow** utilising Microsoft tech stack
Approach	• Adopted a **3-stage process** involving CI pipeline build, CD release integration and **Azure** deployment • Constructed **Key Vault** and ensured code quality using **Git Status Badge, WhiteSource** and **SonarCloud** • Monitored **application performance metrics** with Application Insights & Azure Monitor resources
Result	• Developed fully-functional **web apps** implementing DevOps principles via **secure and compliant pipelines** • Reduced **system downtime for critical applications** by implementing robust monitoring & alerting tools

Ace Overseas Education Consultants | Data Research Analysis Intern | **Received LOR for vital contribution** *Apr'21 - Jul'21*

Objective	• Develop a **structured workflow** to perform data extraction from web sources and outreach
Approach	• Conducted **deep research** and analyzed **textual and audio** data files of more than **10 virtual summits** • Evaluated interns' **performance** and proposed strategies to improve exploration and under-performing insights • Prepared **detailed reports** demonstrating which speakers will be interested to add value to future summits
Result	• Provided personalised client experience as **Team Lead** for **Content Management** handling about **20 members** • Enhanced **team productivity** by assisting **project coordination** and providing **ongoing support**

RELEVANT COURSEWORK & EXPERTISE

Training	Data Science	Programming With Python	Data Manipulation and Visualization Through Statistical Software R	Android App Development	Programming In Maxima	Efficient Use of G-Suite Apps	Front End Web Development and Graphic Designing	Cyber Security and Ethical hacking
Bootcamp	Explainable AI	Data Visualization with Matplotlib	Natural Language Processing	Introduction to NumPy	Introduction to Pandas	Python Basics for Data Science	Introduction to Unsupervised Learning
Technical Skill Set	• LANGUAGES: Python, PySpark, R, C++, Latex, Kotlin, JavaScript, React, Git, Hive, Pig, Hadoop & Scala • WEB: MS-SQL Server, Oracle, MongoDB, MariaDB, Snowflake, Excel, HTML, CSS, XML, Mathematica, Maxima, Google Dialogflow, Tableau, PowerBI, MLOps, LLMOps & DevOps • CLOUD: Microsoft Azure, GCP, AWS & Heroku • CONTAINERIZATION: Docker & Kubernetes • FLOW DESIGNING: Lucidchart, Mural & Draw.io

POSITIONS OF RESPONSIBILITY

Department Magazine Editor | Mata Sundri College for Women, University of Delhi *Apr'19 - Apr'21*

Leadership	• Collaborated within a **3-tier focus-oriented team** of **5 teachers and 8 students** enthusiastically
Initiatives	• Designed the **official cover page** and continued the legacy of **annual magazine "Anantya - Beyond Infinity"** • Classified, compiled and edited **relevant content** presented as **events, articles, poetry and activities** • Crafted **Photo Gallery** to bid adieu to 2018-2021 batch and initiated **Poetry & Activity Corner** section
Impact	• Appreciated by a number of **students and faculties** for **designing Photo Gallery** wholeheartedly • Acknowledged by **Teacher In-charge & Chief Editor** for an influential **cover & teacher in-charge page**

MAJOR INDUSTRIAL PROJECTS

Student Placement App | Minerskape *May'22*

Objective	• Predict if student is **placed or not** based on **CGPA, IQ and Profile Score** fetched from him/her
Approach	• Interpreted placement data of **300 students** to form model as **PKL file** considering **Random Forest Classifier** • Built a **Flask** app and used it to test URL requests with the help of **Postman** software • Integrated the app results to execute a mobile-friendly app via **JavaScript and XML** in **Android Studio**
Result	• Deployed the Flask app on **Heroku** and generated student placement result focusing on **CGPA** on mobile app

Similar Character Recognition | Minerskape   *Apr'22*

Objective	• Formulate an **NLP-based text standardization model** to decipher **related characters** in **Game of Thrones**
Approach	• Followed a **3 - Step procedure** involving text pre-processing, stop words removal and text contextualization • Defined mapping functions for different variables using **Pandas, Numpy, Gensim** and **NLTK** libraries • Outlined a **Word2Vec** model and compared the calculated **cosine similarity indexes** for alike characters
Result	• Proposed **Principal Component Analysis** approach to summarise and visualise results using **Plotly** library

Amazon Web Scraping | Minerskape   *Mar'22*

Objective	• Succeed in scraping **Amazon Baby Clothing Sets** products data and store it employing **MongoDB** software
Approach	• Taken advantage of **Scrapy, Pywin32, Scrapy-User-Agents** and **PyMongo** and created **spider** for crawling • Applied **HTML concepts and Selector Gadget Chrome Extension** to select similarly placed data collectively • Bypassed restrictions via **agents and proxies**, defined pipeline and encoded extraction for multiple pages
Result	• Collected scraped data of **334 documents** inside **NoSQL database** supported by MongoDB Compass

Movie Recommendation System | Minerskape   *Jan'22*

Objective	• **Strategize the recommendation process** for movies on any entertainment platform by acquiring movie name
Approach	• Chased about **5000 movie tags** following principles of **data pre-processing, feature engineering and EDA** • Revamped model workflow utilising **Ast** library for dealing with strings and creating **lambda & apply functions** • Tailored PKL file for similarity values via **Tokenization, Feature Extraction and Cosine Similarity** • Performed **API testing** using Postman application on TMDB - The Movie Database API for end deployment
Result	• Deployed model on **Heroku** platform successfully wherein backend was created using **Streamlit**

ACCOLADES AND EXTRA-CURRICULAR ACTIVITIES

Scholastic	• **Academic Projects:** Heart Failure Detection, Medium Web Scrapper, Prescription Parser, Airline Insights Generation, AI Text Classifier (Kaggle), Landmark Indentification (Kaggle), Emotion Detection & many more • **Other Projects:** Credit Card Prediction, Pose Detection, Whatsapp Analysis, Data Handler, Wfh Analysis, ChatbotRashi, New Reader, Login GUI, Web Authenticator, Galactic astral Identification & Automated EDA • **Dean's Honour List for Fall 2023** at GBC | **Publication:** Virtual Reality and its Applications (IETRTA) • **Virtual Reality Paper Presentation** at UMTEB INTERNATIONAL SCIENTIFIC RESEARCH CONGRESS-XII (2022) | **Golden Ratio Paper Presentation** at MSCW University Of Delhi (2019) • **Winning team** at Safe Roads Competition 2024 by **SAS Institute** & **Toronto Police Services** • One of **top 3** teams at Smart India Hackathon 2022 by **AICTE** & **MoE India** • Achieved **first position** & **cash prize** among **50 students** at Mathematical Rangoli Competition by Delhi Univ. • Secured **second position** & **cash money** out of **100 participants** at Mathematical Quiz by MSCW Delhi Univ. • Received **distinction in Certificate in French** from Mata Sundri College for Women, University of Delhi (2020)
Managerial	• **Cashier** at **Williams-Sonoma, Inc.** (Etobicoke, ON) | **Graphic Design Team** at ISCA Student Chapter CU • **Volunteered and participated** at multiple events & conferences for organizational roles (77.5 hours) • Career Development Mentor | Webinars & Workshops' Attendee | Participant **TEDxMSCW, WIT Google 2024 & 7th Annual Womxn In Data Science Conference RBC** • Promoted as the **Platform Head for LinkedIn and Quora** in the branding team at **Metvy** internship • Performed as **Student Coordinator** in **Decoration Committee** at Annual Fest **Saarang'19** in first year (UG)
Social	• Spearheaded **Team Leader Role** for Content Department at **RSVI** managing **16 interns and 3 intern heads** • Selected as **Peer Mentor** to guide **8 undergraduates** for navigating student life at MSCW, University of Delhi