Akash Chandra Baidya

Resume

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Passionate data scientist with experience in research and project management. Currently pursuing a Master's degree in Data Science at TU Dortmund, with a strong focus on data science and machine learning. Seeking opportunities to apply my skills in a challenging work environment

Experience

2023–2024 **Research Assistant on Data Visualization**, *Forschungszentrum Borstel, Leibniz Lungenzentrum*, Borstel
- Generating visualizations of scientific data according to specifications utilizing web-based tools and own scripts with dedicated libraries.
- Testing and comparing technologies and frameworks for (web-based) data visualization w.r.t. specific requirements.
- Development of web-based data visualizations and contributing to research with biological and medical impact on lung diseases.
  - Project: Protein cysteine oxidation analysis.

2021–2024 **Research and Teaching Assistant (WHF)**, *Technische Universität Dortmund*, Dortmund
- Working as Research Assistant (WHF).
  - Generating and analyzing simulation results, including statistical measures and visualizations using R and Deseq2 packages.
    · Project: Simulation of generating dataset for Deseq2.
- Working as Teaching Assistant (WHF).
  - Courses: Big Data Analysis, Advanced Statistical Learning, Statistical Learning for Big Data and Probabilistic Reasoning & Machine Learning.
  - Taking help desks and exercises, grading exam papers, and checking submissions.

2021–2022 **Research Assistant (WHF)**, *E.ON RWTH Energy Research Center-Aachen*, Aachen
- Designing and implementing web applications using Python and Django framework, along with containerization using Docker and Ansible.

2018–2021 **Assistant Project Manager (Remote)**, *ITM System LLC.*, USA
- Developing and managing web apps & projects.
  - Project: Appointment System, Role Played: Manager and Developer, Description: Developing a Django-based project to provide patients with alerts, reminders, and confirmation.
  - Project: Demo Screening, Role Played: Manager and Developer, Description: Designing and implementing Django-based surveys for client assistance.

| 2018–2021 | **IT Officer, In-Charge (Software)**, *SINGER Bangladesh Ltd.*, Bangladesh |

- ○ Designing, developing, and testing web & Android apps.
- ○ Utilizing SQL to generate essential business insights and create insightful dashboards and reports with Jasper BI.
  - – Project: One Time Password (OTP) APP, Role Played: Developer, Description: Designing and implementing an Android and Django-based project to track managers' location.
  - – Project: Rent Management System, Role Played: Developer, Description: Designing and implementing a Django-based project to facilitate rent calculations and IFRS 16 compliance for organizations.

| 2017–2018 | **Software Engineer (Android)**, *Ubitrix BD Ltd.*, Bangladesh |

- ○ Designing, developing, and testing web & Android apps.
  - – Projects: Speech Therapy Online, Ag Palliative Care, and Natural Family Planning.

Education

| 2020–2024 | **Master of Science in Data Science**, *Technische Universität Dortmund, Dortmund*, Germany, *GPA: 2.4* |

https://www.tu-dortmund.de/

Major Courses Advanced Statistical Learning, Statistical Learning, Information Mining, Deep Learning, Big Data Analytics, Bioinformatics, Machine Learning Paradigms for Complex Data & Industrial Data Science

Internship Time series processing, anomaly detection, and explanation with focus on energy consumption data
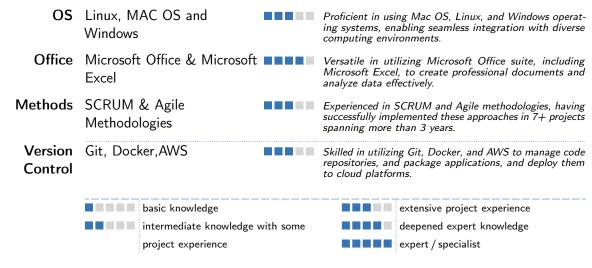
- ○ Implemented in pytorch

| 2012–2017 | **Bachelor of Science in Computer Science & Engineering**, *Khulna University of Engineering & Technology, Khulna*, Bangladesh, *GPA: 2.48* |

https://www.kuet.ac.bd/

Thesis Distributed MAC protocols for VANET (Criticalities for RR-Aloha, MS-Aloha, RR-Aloha+ and proposed a new distributed Aloha MAC protocol for VANET)

Skills

	Skill	Level	*Comment*
Programming Language	Python & R	■■■■□	*Proficient in Python and R with extensive experience in web development and data science projects across industry and research settings.*
Python Libraries	Pandas, Numpy, Pytorch, FastAPI, Requests, Django	■■■■□	*Skilled in the extensive application of Python packages for data processing, machine learning, web development, and web frameworks.*
Database	SQL	■■■■□	*Adept in SQL with extensive experience in data analysis.*
Scripting Language	PHP	■■■□□	*Proficient in PHP with experience in web development.*
	JAVA	■■■□□	*Skilled in Java and Android development with experience in developing and maintaining Android applications.*
Visualization Tools	Power BI, Tableau, RShiny	■■■■□	*Experienced in data visualization and analysis, using Power BI, Tableau, and RShiny to create insightful and informative dashboards and reports.*

OS	Linux, MAC OS and Windows	■■■□□	*Proficient in using Mac OS, Linux, and Windows operating systems, enabling seamless integration with diverse computing environments.*
Office	Microsoft Office & Microsoft Excel	■■■■□	*Versatile in utilizing Microsoft Office suite, including Microsoft Excel, to create professional documents and analyze data effectively.*
Methods	SCRUM & Agile Methodologies	■■■□□	*Experienced in SCRUM and Agile methodologies, having successfully implemented these approaches in 7+ projects spanning more than 3 years.*
Version Control	Git, Docker,AWS	■■■□□	*Skilled in utilizing Git, Docker, and AWS to manage code repositories, and package applications, and deploy them to cloud platforms.*

■□□□□	basic knowledge	■■■□□	extensive project experience
■■□□□	intermediate knowledge with some project experience	■■■■□	deepened expert knowledge
		■■■■■	expert / specialist

Language

Bengali	Mother Tongue	
English	Expert	*fluent in conversations and writing*
German	Beginner	*Basic words and phrases only*

Online Certification

2023	**Deep Learning with pytorch**, *Datacamp*
2021	**Cluster Analysis in R**, *Datacamp*
2021	**Cluster Analysis in Data Mining**, *Coursera*, Issued by University of Illinois at Urbana-Champaign
2019	**SQL for Data Science**, *Edx*, Issued by University of California, Davis
2019	**Applied Scrum for Project Management**, *Edx*, Issued by University of Maryland, College Park