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Education

IIT Kharagpur

B.Tech Batch, CGPA 8.70/10

2020 – 2025

Kharagpur, India

Pushpdeep International School

Senior Secondary (CBSE), SCORE 92%

2019

MP, India

Pushpdeep International School

Secondary (CBSE), CGPA 10/10

2017

MP, India

Experience

Report Automation and Databricks Dashboard | SDE Intern | Simpl

Jun'24 – Aug'24

- Enhanced the efficiency of maintenance scripts by **6 times**, reducing time by implementing **multithreading** using threadpool executor.
- Leveraged **PySpark** to populate and partition over **15 million** daily data points from real-time table across **100+ tables** in **Databricks**.
- Automated reports for data flow, DAG functionality, and ETL processes, increasing visibility across **400+ tables** in **Redshift & Databricks**.
- Saved data as **Parquet** files on **AWS** buckets and developed dynamic **Databricks dashboards**, providing real-time reports and insights.

Survey and Analytics Platform | Open Source Program Intern | C4GT24 Samagra Govt Of India

Aug'24 – Sep'24

- Engineered a survey and analysis platform with dynamic forms using **React** and **MUI**, including short text, long text, MCQs, file uploads.
- Developed an **admin dashboard** for editing survey forms, viewing individual responses, and displaying analytics with **Shad CN** graphs.
- Implemented search and pagination algorithms and integrated **40+ APIs** across **25+ tables** joined with different types of cardinality.
- Set up **SMTP** for secure email verification, integrated **Google Single Sign-On**, and ensured user authentication using **JWT** tokens.

Fantasy Sports App | App Development Intern | Density Exchange

Dec'22 – Jan'23

- Developed a user-friendly fantasy sports app using **React Native**, enabling real player **team creation** and competitive gameplay for prizes.
- Collaboratively contributed to frontend development, algorithms for player **selection**, **search**, **comparison**, and team formation.
- Integrated APIs for fantasy point, teams, players and live match, connected frontend with backend through admin portal for updates.

Physics Engine Study Platform | SDE intern | Engphile Innovation Labs

Jun'22 – Jul'23

- Developed a user-friendly fantasy sports app using **React Native**, enabling real player team creation and competitive gameplay for prizes.
- Collaboratively contributed to frontend development, algorithms for player selection, **search**, **comparison**, and team formation.
- Integrated APIs for fantasy point, teams, players and live match, connected frontend with backend through admin portal for updates.

Competition/Conference

HackOn With AMAZON - Season 4 | Top 10 Team in Visual AI in E-Commerce | Machine Learning

May'24 - Jun'24

- Developed a **Visual AI** solution for Amazon e-commerce by enabling product searches via mobile photos or video frames from Prime.
- Implemented **"Search by Image"** and **"Shopping from Prime Videos"** using Python, **ResNet50**, **YOLO**, and **K-Nearest Neighbors**.
- Prepared data pipeline by scraping and organizing over **4000+** products from various categories, supporting efficient search functionality.
- Achieved **70 accuracy** by leveraging **transfer learning** and **KNN** with **cosine similarity**, adapted **YOLO** for precise product detection.

Projects

Web-based Teamwork Management Application (Team project) | React, JavaScript, Node.js, MySQL, CSS

Dec'21 – Mar'22

- Developed frontend for "Sf Diary," **capturing meeting details** like duration, minutes of meetings and storing it w.r.t date in the backend.
- Integrated frontend with backend** system, enabling secure data transfer and accurate storage of information like attendance and tasks.
- The application provides insightful analysis of daily records, MOMs, offering combined monthly and yearly data for future team reference.

Nation Wide Prelims (NWP) Spring Fest Website (Team project) | React, JWT, Node.js

Oct'21 – Nov'21

- Developed pages which enable **participant login**, **city selection**, single and team event registration for NWP event by Spring Fest.
- Collaborated with the team to seamlessly integrate frontend and backend functionalities, ensuring secure storage of registration data.
- Made significant contributions in designing attractive UI for scrollable **gallery** and **city selection map** using CSS animation and keyframes.

Technical Skills

Languages/Libraries: Python, C, C++, JavaScript, Bash, SQL, GO, JS, PySpark, MUI, Shad CN, antD, GSAP, React, ReactNative

Developer Tools: Git, Visual Studio Code, Postman, Latex, Jupyter Notebook, DataBricks, RedShift, Docker, AWS

Technologies/Frameworks: STL, Node.js, Express.js, Flask, Tkinter, Laravel, MySQL, MongoDB, ThreeJS

Relevant Coursework

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|---------------------------|------------------------------|---------------------|---------------------------------|
| • Programming & STL* | • Algorithms* | • Advanced Calculus | • Partial Differential Equation |
| • Operating Systems | • Probability and Statistics | • Block Chain | • Big Data* |
| • Regression & TimeSeries | • Linear Matrix Algebra | • Machine Learning | • DBMS |

* denotes that particular course includes laboratory component too

Awards and Achievements

- Secured All India Rank in the **top 5** percentile in **JEE Advanced** and **top 3** percentile in JEE Mains (out of **12,00,000+**) in the year 2020
- Achieved a CodeForces rating of **1457** and solved **500+** **DSA** questions on different coding platforms, showcasing programming skills
- Active GitHub contributor with **500+** **commits**, pull requests, and code reviews, fostering open-source collaboration and learning
- Secured College **Rank 73** in Data Structure and Algorithms challenge **CODEKAZE 2023** hiring all India event conducted by Coding Ninjas
- Secured **5th position** in Development-based **30-hours** long hackathon conducted by Density Exchange and obtained an internship

Leadership / Extracurricular

Tech Team Head | Spring Fest | Technology Students' Gymkhana | IIT Kharagpur

Dec'21 – Mar'23

- Led the tech team of Spring Fest, one of the largest social and cultural fests, overseeing website development for various activities.
- Provided guidance and support to a team of 14 subheads in the creation of event websites like registration and accommodation panels.
- Worked on 15+ SF websites including **Labyrinth** (a treasure hunt Web), **Team website**, **Merch Portal**, **Social Portal**, and **Main website**.