# **Disha Agarwal**

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**EDUCATION**

**PES University** **Bangalore**

*Bachelor of Technology in Computer Science and Engineering May 2024*

GPA: 8.77/10.00. Courses: Advanced Algorithm, Machine Intelligence, Database Technologies, Statistics.

Award: MRD Scholarship (40% fee waiver for Tuition fees)

**WORK EXPERIENCE**

**Hewlett Packard Enterprise Bangalore**

*Software Developer Feb 2024 - Present*

* Responsible for the complete backend development of a debugging tool that proactively identifies and provides solutions for networking switch failures, significantly reducing customer support time by 40%
* Developed and integrated backend services using **MongoDB, Node.js, Express,** and **Python,** enhancing the overall efficiency of troubleshooting processes.

**PES University Bangalore**

*Teaching Assistant Aug 2023 - May 2024*

* **Assisted** the Professor in grading assignments and providing guidance for the courses **Data Structures** and **Design and Analysis of Algorithms** to over 120 students.
* **Engineered** an automated leaderboard extraction system using **Selenium**, reducing TA workload by 50% and significantly improving grading efficiency.

**PUBLICATION**

* **Title:** Advanced Automated Document Processing Using Optical Character Recognition (OCR)
* **Conference:** IEEE 9th International Conference for Convergence in Technology (I2CT), 2024
* **Link**: <https://lnkd.in/gg6z2uRR>
* **Idea**: This paper presents a sophisticated automated document processing system leveraging Optical Character Recognition (OCR) technology for accurate and rapid text extraction from handwritten and printed documents.

**SKILLS**

**Programming Languages**: Python, C, Java. **Databases**: MySQL, MongoDB. **Web and Mobile Development**: JavaScript, HTML, CSS, Flutter, MERN. **Other**: Data Structures and Algorithms, Problem Solving, Communication (Fluent in four languages), Quick Learner, Time Management.

**PROJECTS**

***Automated Document Processing | PES University Capstone Project***

* Developed a document processing system using Optical Character Recognition (OCR) to automate and streamline data extraction processes.
* Implemented image preprocessing techniques with OpenCV to enhance OCR accuracy and improve overall system performance.
* Designed and Integrated a Chatbot using APIs for automated form filling, improving user interaction and efficiency.
* Technologies Used: **Python**, **OpenCV**, **Machine** **Learning**, **API** Development.

***Career Counseling Application | PES University, Elective Project***

* Developed a Career Counseling application using **Flutter**, focusing on the complete application development process.
* Collaborated on the prototype design using **Figma**, ensuring seamless translation of design to the functional application.

**ACHIEVEMENTS**

* Finalist of **Microsoft Engage Program.**
* Top 2.5% of Students in **Google Girls India Hackathon**