

Jaideep Singh Sachdev

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Education

Manipal University Jaipur

B.Tech.in Computer Science CGPA: 9.77

Rajasthan, India

Jul 2018 - Present

Delhi Public School Bhilai

Senior Secondary Education

Chhattisgarh, India

2018

Class XII (CBSE): 89.6%

Secondary Education

2016

Class X (CBSE): 9.8/10

Work Experience

Technical Product Analyst Intern, Juspay

Jan 2022 - Present

- Performed as a team member in the Payments Page Team which is an extension of the Product Operations Team. Worked on Product Customization, Service Integration, Analytics, Quality Assurance, and Customer Management.
- Added different components and features from scratch in Presto (framework of juspay built using purescript).
- Working with a team on hyper-sdk an end-to-end platform for payments, completed a track that was aimed to improve the user experience for the merchants.
- Currently working with a team on Godel (Juspay Safe Browser) aimed to optimize the payments in iOS.

Associate Consultant Intern, Microsoft

Jun 2021 - July 2021

- Performed as a team member on an agile team focused on developing a Web Portal using React with ASP.NET Core and Power BI Reports to enable Transparent Staffing.
- Worked on several Cloud and DevOps technologies such as AD B2C, Key Vault, App Services, Blob Storage, Logic Apps, Azure Boards, CI/CD Pipelines, Azure Repos, Azure Artifacts.
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Research Intern, CDAC

Jun 2020 - May 2021

- Developed a Python program to threshold Correlation Matrices between different Regions of Brain using Graph Theory Concepts.
- Applied Data Science on different types of Brain Data (EEG and fMRI) like Exploratory Data Analysis, Hypothesis Testing and Machine Learning Models.

Instructor, CampK12

Apr 2020 - May 2020

- Trainer for Artificial Intelligence, 2D and 3D Coding, Android App Development, Web Development to students of age group 6-18y.

Technical Skills

Areas of Interest:

Data Structures, Algorithms, Data Science, Machine Learning, Artificial Intelligence

Programming Languages:

C, C++, Python, Java, MATLAB, C#, Haskell, Purescript

Analytical Tools and Utilities:

Tableau, MySQL, Firebase, SPM, Git, T-SQL, Power BI, ASP.NET Core (Razor, MVC), Azure Data Factory

Libraries:

Numpy, Pandas, SciPy, SciKit-Learn, Keras, TensorFlow, Matplotlib, Seaborn, STL, NPM.

Selected Projects

Web Portal with Interactive Dashboards for Transparent Staffing (Microsoft)

- Implemented Data Flows and Data Pipelines using Azure Data Factory and corresponding T-SQL Stored Procedures using SSMS for different Use Case Scenarios.
- Optimized Data Loading Time from Blob Storage to SQL Database by 30% using Data Wrangling in Data Factory and Merge Operations in T-SQL Stored Procedures.
- Created Role Based Dynamic Dashboards using Power BI for solving different Business Problems, embedded these Dashboards in our Web Portal. Web Portal was created using React with ASP.NET Core. Implemented APIs for CRUD operations, Azure Active Directory B2C and Azure Key Vault in our Web Portal.
- Deployed our application using CI/CD Pipelines in Azure DevOps, Hosted our application in App Services.

Advanced Brain Data Signal Analysis for Disorders & Solutions (CDAC)

- Modeled a CNN classifier to segregate patients with MDD (Major Depressive Disorder) and ND (Not Depressed) with the help fMRI Brain Signals.
- Solved a Classification problem using KNN to classify different flickering circles of different frequencies which can be used for BCI (Brain Computer Interface) Applications.
- Developed a P300 speller which can detect words with the help of P300 signals which get evoked when a subject gazes on a specific word on the P300 Speller.

Automated Visitor Management System - developed & deployed at Manipal University Jaipur

- Developed and deployed an Automated Visitor Management System in Android using Java to make it easier to verify visitors and provide them with a fast paperless entry to university.
- Makes use of QR Code Scanner for validation, Real-time Database of Firebase for maintaining visitor's entry and provides Meeting Scheduler to Professors.

Achievements and Awards

- First Prize (Best Minor Project in the Department of CSE for "Research Category") Organized by Manipal University Jaipur
- Winner of MUJ Hacks 4.0 (Hackathon) Organized by MUJ ACM Student Chapter
- Batch Topper (2nd and 4th Semester) Manipal University Jaipur

Publications

- Research Article: **Performance Analysis of Machine Learning Algorithms for Classifying Hand Motion-Based EEG Brain Signals** in Journal: **Computer Systems Science & Engineering**; Tech Science Press (2021)
- Book Chapter: **A Comprehensive Review on Brain Disease Mapping—The Underlying Technologies and AI-Based Techniques for Feature Extraction and Classification Using EEG Signals** in Book: **"Medical Informatics and Bioimaging Using Artificial Intelligence"**; Springer Publications (2021).
- Book Chapter: **SAKHA: An Artificial Intelligence Enabled Visual BOT for Health and Mental Wellbeing During COVID'19 Pandemic** in Book: **"Digital Transformation and Emerging Technologies for Fighting COVID-19 Pandemic: Innovative Approaches"**; Springer Publications (2021).
- Conference Publication: **Deep Learning Models Using Auxiliary Classifier GAN for Covid-19 Detection - A Comparative Study**; **"Advances in Intelligent Systems and Computing book series"**, AISC, vol. 1377, Springer Publications (2021).
- Book Chapter: **Academic Analytics Through MOOCs** in Book: **"Proceedings of International Conference on Communication and Artificial Intelligence"**; Springer Publications (2021).

Certifications

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| • Full Stack Data Science, Jigsaw Academy, Bengaluru, KA, India | 2019 |
| • Python for Everybody Specialization, University of Michigan, Coursera | 2020 |
| • AI Foundations for Everyone Specialization, IBM, Coursera | 2020 |
| • Deep Learning Specialization, DeepLearning.AI, Coursera | 2021 |

Relevant Courses

Data Structures, Design and Analysis of Algorithms, Operating Systems, Databases, Graph Theory, Automata Theory, Compilers, Software Engineering, Data Science, Machine Learning, Artificial Intelligence, Big Data Analysis and Hybrid Soft Computing.

Extracurricular

- Conducted 6-week Full Stack Data Science Boot Camp for UG / PG students at Sai College, Bhilai, CG, India
- Conducted 8-days seminar for BTech Y1,2 - "Progate" at Manipal University Jaipur - Web app creation using Html, CSS, JavaScript and Firebase