KULDEEP KAIWART

Person.kkaiwart@gmail.com

8319614917

**CAREER OBJECTIVE**

I want to develop my skills and knowledge in a good environment, which can be utilized further to obtain a desired position in an organization and to achieve new goals in life.

**EDUCATION**

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| --- | --- | --- | --- |
| Year | Degree/Examination | Institution/Board | CGPA/percent |
| Current | M.Tech (Biomedical Engineering) | Indian institute of technology Varanasi | 7.46 |
| 2017 | B.Tech (Biomedical engineering) | National institute of technology Rourkela | 6.70 |
| 2012 | XII | Chhattisgarh board of secondary education | 85.60 |
| 2010 | X | Chhattisgarh board of secondary education | 94.50 |

**PROJECTS**

* I am currently doing M.Tech project on neuroimaging. Aim of the project is to find correlation between amyloid load in the brain and Alzheimer’s disease. Three neuroimaging modalities have been used which are Positron emission tomography imaging (PET), magnetic resonance imaging (MRI) and diffusion weighted imaging (DWI). Statistical parametric mapping (SPM) and FMRIB’s software library (FSL) neuroimaging software has been used. From PET scans standard uptake value (SUV) was calculated over the age group 45-50 and 65-90. Grey matter volume was also correlated with the Alzheimer’s disease. It has been found that over the years the deposition of the amyloid protein in the brain increases and grey matter volume gets reduced.
* My undergraduate project was on “Development of chitosan/sodium alginate based scaffold for ligament tissue engineering”. This project aim was to develop a porous scaffold by taking different ratios of chitosan and sodium alginate by using freeze-drying technique. Further in-vitro characterization (XRD characterization, FTIR analysis and E-SEM analysis) was taken to find the best ratio among them. Through this project I learned the way tissue engineering could be helpful in curing the ligament tissue injuries and its impact on healthcare systems in current.

* Undergraduate summer project at Community welfare society hospital Rourkela Orissa for 2 months. In this visit I studied various equipment such as C.T. scan, X-ray units, ultrasonography and echocardiography at radiology and imaging Centre. Their method of operation was illustrated.

**AWARDS/SCHOLARSHIP/ACADEMIC ACHIEVEMENT**

* Teaching assistantship at IIT VARANASI since July 2018.
* Amul Vidya Shri Award at 10th class.
* Science section topper in 12th class.
* In Top 10 position in 8th class in district merit list.
* AIR 68 in IIT JAM 2018 (Biological science) and AIR 309 in GATE 2018.

**SKILLS**

* Computer languages – C, Python.
* Software packages- Microsoft Office.
* Languages known – Hindi, English, and Chhattisgarhi.

**POSITIONS OF RESPONSIBILITY & EXTRACURRICULAR**

* Participated in NCC during under graduation.
* Participated in dance competition (Karma Naach) in school.
* Participated in Independence Day parade and Yoga in school.
* Joined technical events and club during under graduation.
* Actively involved in sports during undergraduate.
* Participated in Sanskriti Gyan Parisha during school.